S/M No. :

# Service Manual

## Washing Machine

**Model: DWF-750/752/800/802**

**DWF-8000/8001/8002**

**✔ Caution**

: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center (http://svc.dwe.co.kr).

**DAEWOO ELECTRONICS CORP.**

http : //svc.dwe.co.kr Sep. 2011

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# 1. SPECIFICATIONS

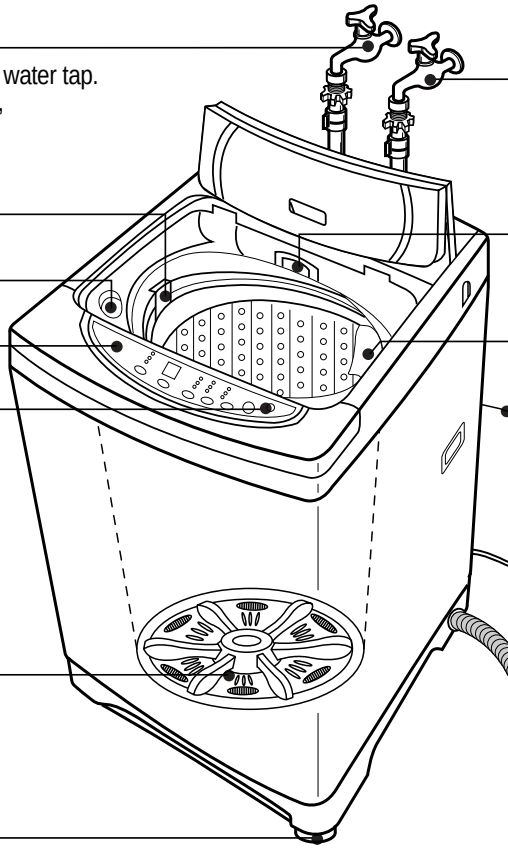
| NO. | ITEM | | DWF-750 | DWF-752 | DWF-800/8000 | DWF-802/8002 |
|---|---|---|---|---|---|---|
| 1 | POWER SOURCE | | AVAILABLE IN ALL LOCAL AC VOLTAGE | | | |
| 2 | POWER CONSUMPTION | 50Hz | 320W | | | |
| | | 60Hz | 300W(110~127V) / 340W(220V) | | | |
| 3 | MACHINE WEIGHT | NET | 28kg/28.5kg(pump) | | 28.5kg/29kg(pump) | |
| | | GROSS | 31.5kg/32kg(pump) | | 32kg/32.5kg(pump) | |
| 4 | DIMENSION (WXHXD) | | 525X858X535 | 525X948X535 | 525X858X535 | 525X948X535 |
| 5 | MATERIAL OF INTERNAL TUB | | PLASTIC | | STAINLESS STEEL | |
| 6 | WASHING PROGRAM | | FULL AUTOMATIC 6 PROGRAMS (FUZZY, FUZZY+SOAK, HEAVY, HEAVY+SOAK, SPEEDY, WOOL/SUIT) | | | |
| 7 | WATER LEVEL SELECTOR | | HIGH(55ℓ), MID(45ℓ), LOW(31ℓ) | | | |
| 8 | OPERATING WATER PRESSURE | | 0.3kgf/cm$^2$~8kgf/cm$^2$ (2.94 N/cm$^2$~78.4N/cm$^2$) | | | |
| 9 | MAXIMUM MASS OF TEXTILE | | 5.5kg | | 6.0kg | |
| 10 | REVOLUTION PER MINUTE | WASH | 125~145(50Hz), 130~150(60Hz) | | | |
| | | SPIN | 710~725(50Hz), 760~785(60Hz) | | | |
| | | SUIT | 50(50Hz), 60(60Hz) | | | |
| 11 | WATER CONSUMPTION | | APPROX. 130ℓ/CYCLE | | | |
| 12 | WATER LEVEL CONTROL | | ELECTRONICAL SENSOR | | | |
| 13 | ANTI NOISE PLATE | | OPTION | | | |
| 14 | GEAR MECHANISM ASS'Y | | SPUR GEAR | | | |
| 15 | LINT FILTER | | O | | | |
| 16 | SOFTENER INLET | | O | | | |
| 17 | ALARM SIGNAL | | O | | | |
| 18 | AUTO. WATER SUPPLY | | O | | | |
| 19 | FUNCTION FOR BUBBLE | | OPTION | | | |
| 20 | AUTO RE-FEED WATER | | O | | | |
| 21 | AUTO POWER OFF | | O | | | |

# 2. STRUCTURE OF THE WASHING MACHINE

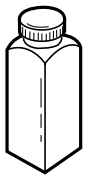
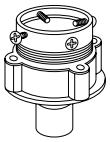
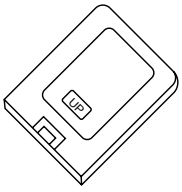
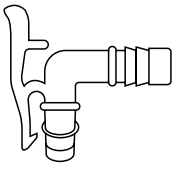
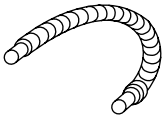
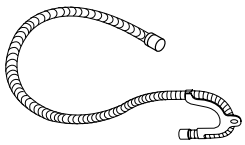
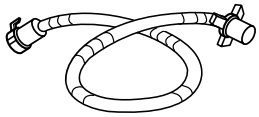
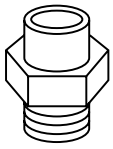
The parts and features of your washer are illustrated on this page.
Become familiar with all parts and features before using your washer.

**NOTE**

- The drawing in this book may vary from your washer model. They are designed to show the different features of all models covered by this book, Your model may not include all features.
- Page references are included next to same features.
  Refer to those pages for more information about the features.

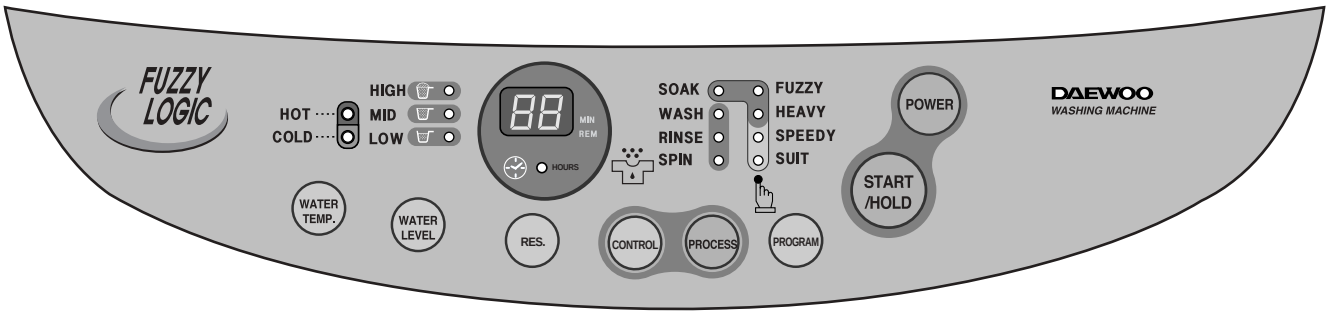



## Accessories

| DRYTEN(OPTION) | HOSE ADAPTER | UNDER COVER(OPTION) | HOSE CONNECTOR(OPTION) |
|---|---|---|---|
|  |  In case of screw shaped inlet hoses water tap adapters will not be provided. |  |  |
| DRAIN HOSE | | INLET HOSE(OPTION) | CONNECTOR INLET(OPTION) |
|  NON PUMP MODEL |  PUMP MODEL |  |  |

# 3. FUNCTIONS OF THE CONTROL PANEL

Control panel has micom sensor.
As the buttons are pressed, the lamps indicating the selection of your desired washing program will light up.



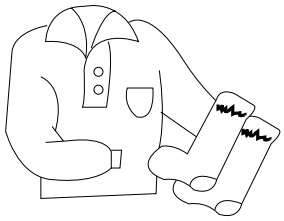

| | |
|---|---|
| POWER | • Press this switch to turn the power on or off. |
| WATER TEMP. | • It can be used to choose water temperature to be supplied.<br>• As the button is pressed, water temperature will be repeated.<br>COLD → COLD+HOT → HOT<br>• In case of the single valve model, there is no wash temperature selector function. |
| WATER LEVEL | • It can be used to adjust amount of water according to the size of the load to be washed.<br>• As the button is pressed, water level is selected by MID → HIGH → LOW |
| RES. | • It can be used to pre-engage time for wash. |
| PROCESS | • It is the button for the partial process or the combination of each process (wash, rinse, spin) (See page 7) |
| CONTROL | • If you want to change wash time, rinse times, spin time, you must press this button after selecting each process by the process button. Also, this button can be used to spin only. (See page 7) |
| PROGRAM | • It can be used to select the full-automatic program.<br>• As the button is pressed, program will be selected by following order :<br>FUZZY → FUZZY+SOAK → HEAVY → HEAVY+SOAK → SPEEDY → SUIT(WOOL) |
| START /HOLD | • Operation and temporary stop is repeated as it is pressed.<br>• When you want to change program in operating;<br>press the “START/HOLD” button → Select the program that you want to change → press the “START/HOLD” button again. |

# 4. WASHING PROCEDURE AND PROGRAM SELECTION

## Full Automatic Program

**1. FUZZY PROGRAM (SENSOR);**

- This selection is for general washing except extraordinary clothes.
- Artificial brain sensor selects properly the various kind of washing condition such as washing time, rinse times, spin time and water level. Procedure to press the button;

| 1 Put in the clothes | 2 Press the power switch. | 3 Press the Start/Hold button, and close the lid. |
|---|---|---|
|  | | |

**2. HEAVY PROGRAM;**

- This selection is effective for blue-jean, climbing clothes, rucksack, sports wear etc..
- Procedure to press the button;

| 1 Press the power switch. | 2 Press the program selection button for “HEAVY” | 3 Select the water level proper to the wash load. | 4 Press the Start/Hold button and close the lid. |
|---|---|---|---|
| | ○ *FUZZY*<br>● *HEAVY*<br>○ *SPEEDY*<br>○ *WOOL/SUIT*<br> | ○ *HIGH*<br>● *MID*<br>○ *LOW*<br> | |

**3. SPEEDY PROGRAM;**

- This selection is useful to reduce water consumption and washing time for less dirty clothes. Procedure to press the button;

| 1 Press the power switch. | 2 Press the program selection button for “SPEEDY” | 3 Select the water level proper to the wash load. | 4 Press the Start/Hold button and close the lid. |
|---|---|---|---|
| | ○ *FUZZY*<br>○ *HEAVY*<br>● *SPEEDY*<br>○ *WOOL/SUIT*<br> | ○ *HIGH*<br>● *MID*<br>○ *LOW*<br> | |

**4. SUIT(WOOL) PROGRAM;**

- This selection is effective for suit/wool clothes. (1.2kg's limitation for 1-time wash)
- Do not put leather clothes, or chamios clothes into the washing tub for washing. It may cause shrinkage or deformation to the clothes.
- Please use the neutral detergents only.
- The water temperature is fixed to "COLD".
- The water level "LOW" is not selected. Procedure to press the button;

| 1 Press the power switch. | 2 Press the program selection button for "WOOL" or "SUIT". | 3 Select the water level proper to the wash load. | 4 Press the Start/Hold button and close the lid. |
|---|---|---|---|
| | ○ *FUZZY*<br>○ *HEAVY*<br>○ *SPEEDY*<br>● *WOOL/SUIT*<br> | ○ *HIGH*<br>● *MID*<br>○ *LOW*<br> | |

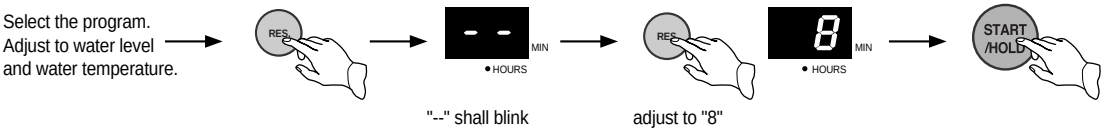
**5. SOAK PROGRAM;**

- This selection is effective for heavily soiled clothes.
- If you want to soak, press the program button to adjust to "FUZZY + SOAK" or "HEAVY + SOAK". Precedure to press the button;

| 1 Press the power switch. | 2 Press the program selection button for "SOAK" | 3 Select the water level proper to the wash load. | 4 Press the Start/Hold button and close the lid. |
|---|---|---|---|
| | *SOAK* ● ● *FUZZY*<br>*WASH* ○ ○ *HEAVY*<br>*RINSE* ○ ○ *SPEEDY*<br>*SPIN* ○ ○ *WOOL/SUIT*<br> | ○ *HIGH*<br>● *MID*<br>○ *LOW*<br> | |

## Reserved Washing

- Reservation can be made from 2 hours to 48 hours.
- To make reservation to complete washing in 8 hours.




"--" shall blink adjust to "8"

- Now the reservation is made.
- If you want to check the selected program, press the “START/HOLD” button again.

## Partial Process & Combination

| | |
|---|---|
| POWER | |
| PROCESS<br>↓<br>CONTROL | ***WASH TIME CONTROL***<br>• As the control button is pressed, wash time will be repeated as following;<br>12 → 15 → 18 → 0 → 6 → 9min.<br>• If you don’t want wash process, you must adjust wash time to 0 min.. |
| ↓<br>PROCESS<br>↓<br>CONTROL | ***RINSE TIMES CONTROL***<br>• As the control button is pressed, rinse times will be repeated as following;<br>2 → 3 → 4 → 0 → 1 time(s)<br>• If you don’t want rinse process, you must adjust rinse times to 0 times. |
| ↓<br>PROCESS<br>↓<br>CONTROL | ***SPIN TIME CONTROL***<br>• As the control button is pressed, spin times will be repeated as following;<br>5 → 7 → 9 → 0 → 1 → 3 min.<br>• If you don’t want spin process, you must adjust spin time to 0 min.. |
| START<br>/HOLD | |

## Convenient Operation For Spin Only

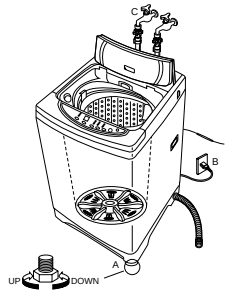
- If you want spin oly, it is convenient to operate the button as following;

# 5. DIRECTIONS FOR INSTALLATION AND USE

## Location Of Washer

Check location where washer will be installed. Make sure you have everything necessary for correct installation. Proper installation is your responsibility.

- Do not place or store your washer below 0˚C(32˚F) to avoid any damage from freezing.
- Install the washer on the horizontal sold foor.



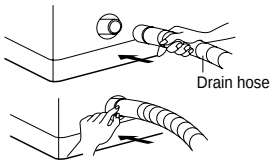
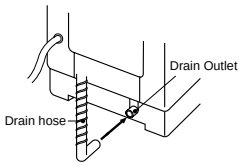

If the washer is installed on an unsuitable floor, it could make considerable noise, vibrate and cause a malfunction.
If washer is not level, adjust the front leg(A) up or down for horizontal setting.

- Earthed electrical outlet(B) is required with 20cm of bottom back of washer cabinet.
- Hot and cold water faucets (C) must be within 1M of the upper back of the washer cabinet and provide water pressure 0.3kgf/cm$^2$-8kgf/cm$^2$(2.94N/cm$^2$-78.4N/cm$^2$).

## Drain System

Never forget to install drain hose before operating your washer.
The packing box is opened, there are a drain hose.

- Conect the drain hose to the drain outlet at the back side of the washer.

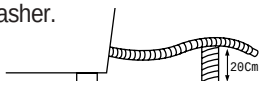
| Non-Pump Model | Pump Model |
|---|---|
|   |   |

**NOTES**

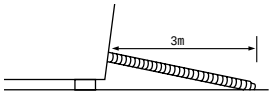
The opening must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.

**Non-Pump Model**

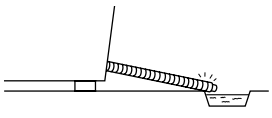
1 In case that it goes over a door sill. Don't let the height of the drain hose exceed 20cm from the bottom of washer.



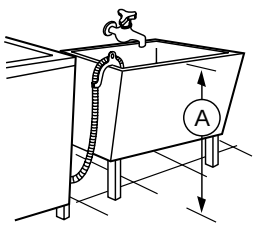
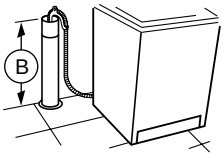

2 In case of extending the drain hose. Don't let the total length exceed 3m.




3 Be careful that the end of the drain hose is not immersed in water.



**Pump Model**

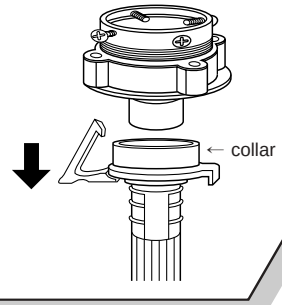
| Laundry tub drain system | Standpipe drain system |
|---|---|
| • Top of tub must be at least 86cm (34inches) high and no higher than 130cm from bottom of washer (A)   | • Needs a 3cm minimum diameter standpipe with minimum carry away capacity of 30liters per minute.<br>• Top of tub must be at least 86cm(34inches) high and no higher than 130cm from bottom of washer (B)   |

## How to Connect the Inlet Hose

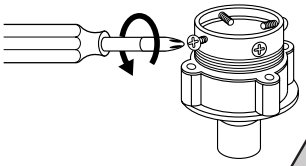
Be careful not to mistake in supplying between the hot(maximum : 50˚C) and cold water.
In using only one water tap or in case of attached one water inlet valve, connect the inlet hose to the cold water inlet valve.
Do not over tighten : this could cause damage to couplings.

**• • • • FOR ORDINARY TAP**

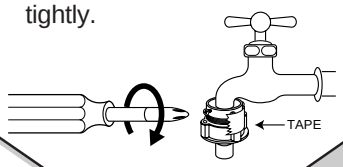
**1** Pull down the collar of the inlet hose to separate it from the water tap adapter.



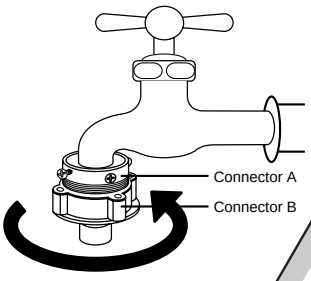

**2** Loosen the four screws at the water tap adapter, but don't loosen the screws until they are separated from the water tap adapter.



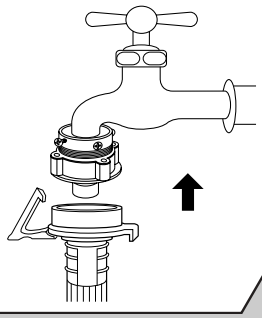
**3** Connect the water tap adapter to the water tap and tighten the four screws evenly while pushing up the adapter so that the rubber packing can stick to the water tap tightly.



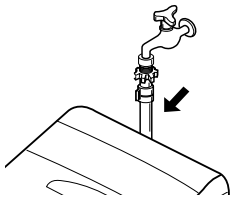

**4** Remove the tape, and screw connector B into connect A tightly.




**5** Connect the inlet hose to the water tap adapter by pulling down the collar of the hose end.



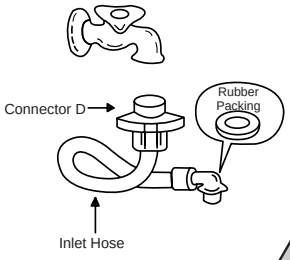
**6** Connect the inlet hose adapter of the hose to the water inlet of the washer by turning it clock-wise to be fixed tightly.



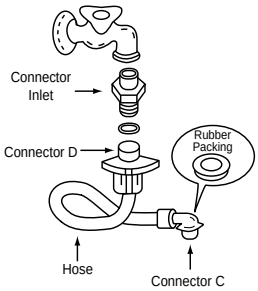
• Please check the rubber packing inside the inlet hose adapter of the hose.

**• • • • FOR SCREW-SHAPED TAP**

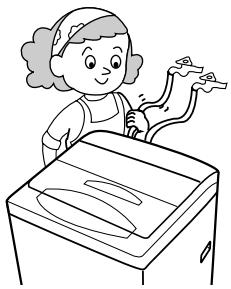
**1** Connect the inlet hose to the water tap by screwing the con-nector D tightly.




**2** Connect the connec-tor-inlet supplied if necessary.




**3** Insert the inlet hose adapter into the water inlet of washer and turn it to be fixed.

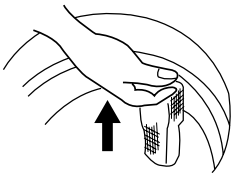


• Assert the packing in the inlet

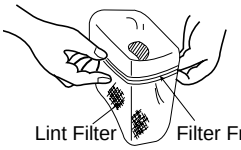
## How To Clean The Filter

**• • • • CLEANING THE LINT FILTER**

**1** Pull the Filter frame upward.



**2** Turn the lint filter inside out, wash the lint off with water.



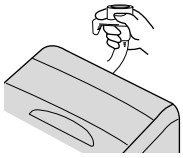

**3** Return the filter as it was, and insert the filter frame into the slot.

**• • • • CLEANING THE WATER INLET FILTER**

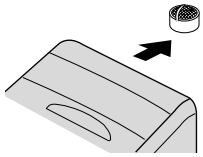
• Clean the filter when water leaks from the water inlet.

**1** Pull the power plug out before cleaning it.

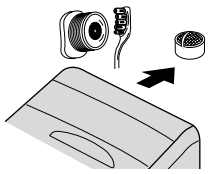
**2** Turn off the water supply to the washer and separate the inlet hose.



**3** Pull the inlet filter out.



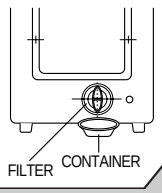
**4** Remove the dirt from the inlet filter with a brush.



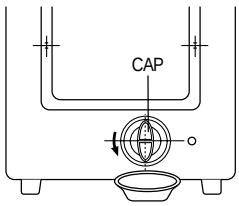
**• • • • CLEANING THE DRAIN FILTER**

• In case of “U” shaped drain hose, this filter’s equipped at the back side of washer.
• This drain filter is to screen the foreign stuffs such as threads, coins, pins, buttons etc ..
• If the drain filter is not cleaned at proper time (every 10 times of use), drain problem could be caused.

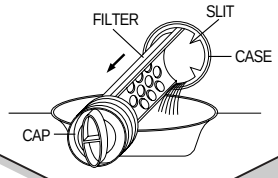
**1** Put down the remained water in the hose. And put a container under the filter to collect water.



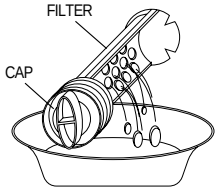

**2** Turn the cap counter-clockwise.



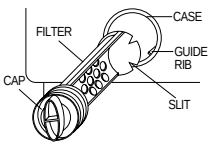

**3** Pull out the filter assembly off the case of the main body.



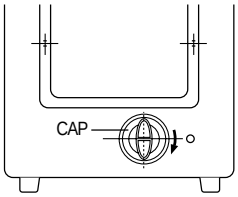

**4** Clean the drain filter removing the foreign stuffs.




**5** Put in the filter along the guiding prominence of the case. Please note the left position of the filter adjusting the groove to the guide rib.




**6** Turn the cap clockwise tightly.



## Feature of the Washing Machine

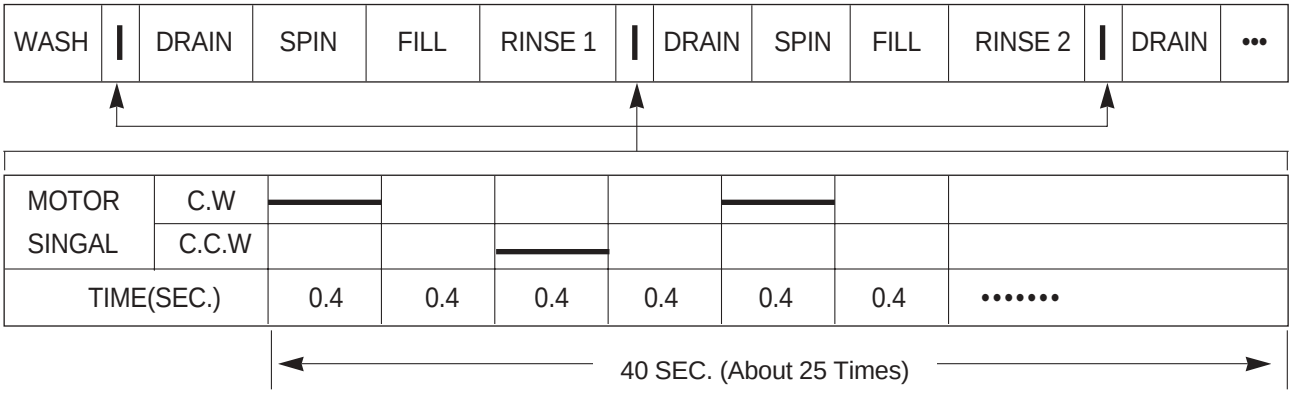
1 The first air bubble washing system in the world.
2 Quiet washing through the innovational low-noise design.
3 The wash effectiveness is much more enhanced because of the air bubble washing system.
4 The laundry detergent dissolves well in water because of the air bubble washing system.
5 The adoption of the water currents to adjust the unbalanced load.
6 One-touch operation system.

## Water Current to Adjust the Unbalanced Load

It is a function to prevent eccentricity of the clothes after wash by rotating pulsator C.W and C.C.W for 35 seconds.(But, the SUIT course have no operation of the water currents to adjust the unbalnced load.)

**EFFECT**
It reduces vibration and noise effectively while spinning.

**WATER FLOW**




* When the water level is “HIGH”

## Automatic Water Supply System

The water level would be lowered because the clothes absorbs water at the beginning of washing. Therefore, after 60 seconds, the operation is interrupted to check the water level, and then the water is supplied again until the selected water level is reached.

## Automatic Drainning time Adjustment

This system adjusts the draining time automatically according to the draining condition.

| | | |
|---|---|---|
| Draining condition | Good draining | The washer begins spin process after drainage. |
| | Bad draining | Draininig time is prolonged. |
| | No draining | Program is stopped and gives the alarm. |

**FUNCTIONAL PRINCIPLE**

1 The micom can remember the time from the begining of drain to reset point when the pressure switch reaches to "OFF" point

| Drain Time | Movement of the Program |
|---|---|
| Less than 10 minutes | Continue draining |
| More than 10 minutes | Program stops and gives the alarm with blinked on display lamp. |

2 In case of continuous draining, residual drain time is determined by micom.
Draining time as a whole = D + 40
D: Residual drain time.
40: The time remembered by micom.

## Softener Dispenser

This is the device to dispense the softener automatically by centrifugal force.
This is installed inside the auto-balancer.

### FUNCTIONAL PRINCIPLE

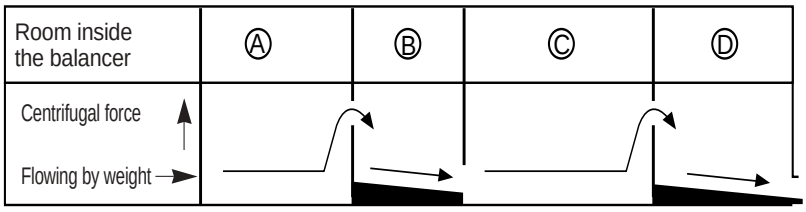
1 Softener stays in room (A) when poured into softener inlet.
2 Softener moves from (A) to (B) by centrifugal force during intermittent spin process.
3 Softener flows from (B) to (C) during rinse process next to intermittent spin.
4 Softener moves from (C) to (D) by centrigfugal force during second intermittent spin.

After spin process is finished, the softener is added into the tub through softener outlet.

### FLOW OF THE SOFTENER

| | Wash | Intermittent Spin | Hold | Intermittent Spin | Rinse | Spin |
|---|---|---|---|---|---|---|
| Normal | Centrifugal force | | Flow in | Centrifugal force | Flow in | |
| Program | (A) → | (B) → | (C) → | (D) → | → | ——— |

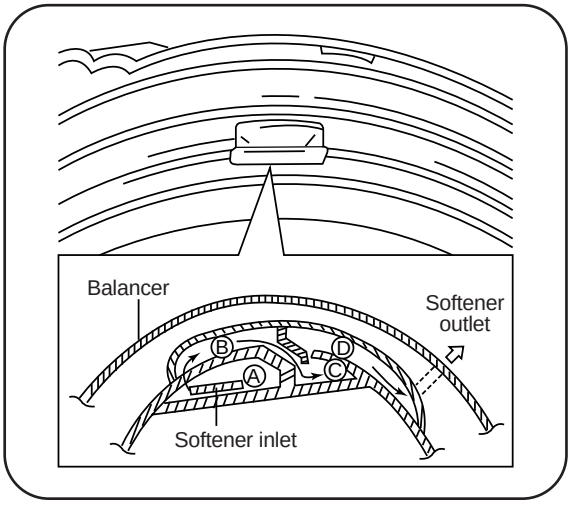
### FLOW OF THE SOFTENER INSIDE OF THE BALANCER




**NOTES** Softener moves into the next room when r.p.m of the tub is more than 100 r.p.m.

### HOW TO CHECK MOVEMENT

Pour a reasonable amount of “MILK” into softener dispenser and operate the washer with no load. In final rinse cycle, make sure that the milk is added into the tub through softener outlet.



## Automatic Unbalance Adjustment

This system is to prevent abnormal vibration during intermittent spin and spin process.

**FUNCTIONAL PRINCIPLE**

1 When the lid is closed, the safety switch contact is “ON” position.
2 In case that wash loads get uneven during spin, the outer tub hits the safety switch due to the serious vibration, and the spin process is interrupted.
3 In case that P.C.B. ASS’Y gets “OFF” signal from the safety switch, spin process are stopped and rinse process is started automatically by P.C.B. ASS’Y.
4 If the safety switch is operated due to the unbalance of the tub, the program is stopped and the alarm is given.

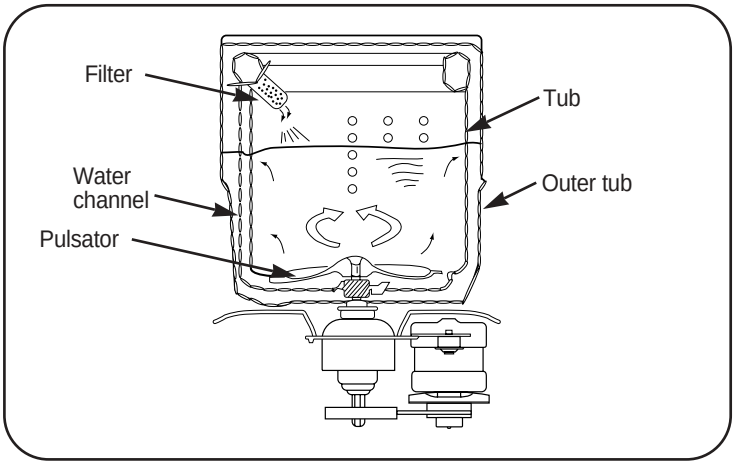
**NOTES**

The alarm finished when you close the lid after opening it. Check the unbalance of the wash load and the installation condition.

## Circulating-Water

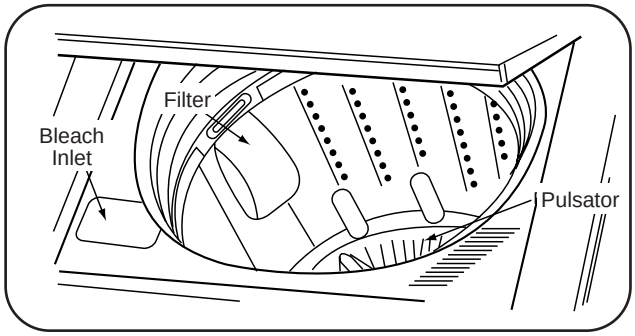
**CIRCULATING-WATER**

The washing and rinsing effects have been improved by adopting the water system in which water in the tub is circulated in a designed pattern.
When the pulsator rotates during the washing or rinsing process, the water below the pulsator vanes creates a water currents as shown in figure.
The water is then discharged from the upper part of the tub through the water channel. About 40 L/min. water is circulated at the ‘high’ water level, standard wash load and standard water currents.



## Lint Filter

Much lint may be obtained according to the kind of clothes to be washed and some of the lint may also sticks to the clothes.
To minimize this possibility a lint filter is provided on the upper part of the tub to filter the wash water as it is discharged from the water channel. It is good to use the lint filter during washing.




**HOW TO REPLACE LINT FILTER**

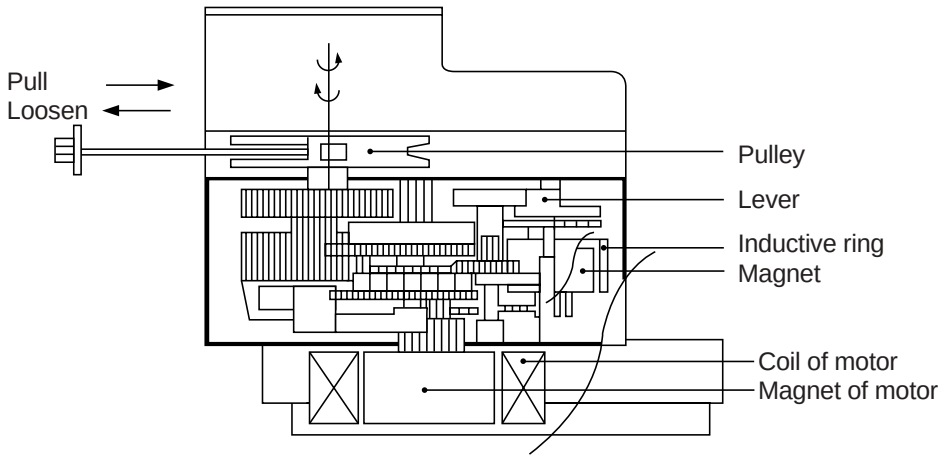
1 Pull the filter frame upward.
2 Turn the lint filter inside out, and wash the lint off with water.
3 Return the filter as it was, and fix the filter frame to the slot.

## Residual Time Display

When the START/HOLD button is pressed, the residual time (min.) is displayed on the time indicator, and it will be counted down according to process.
When operation is finished, the TIME INDICATOR will light up .

## Drain Motor

**STRUCTURE**

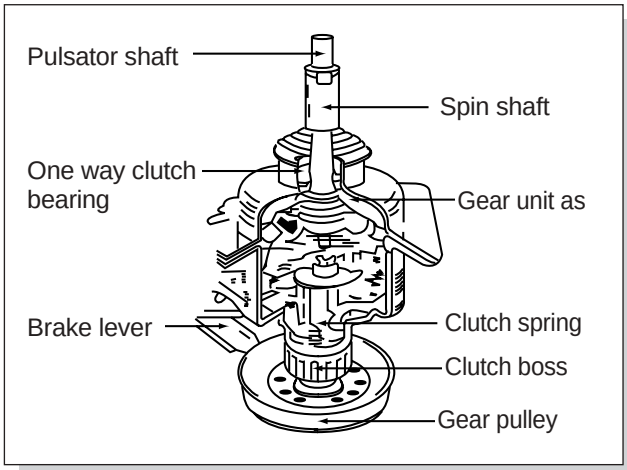


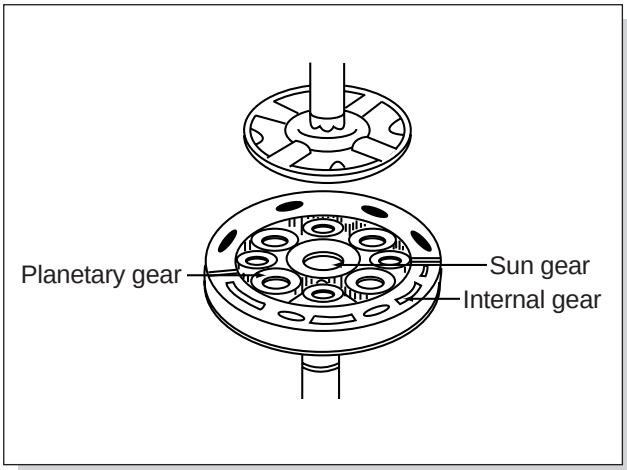

**FUNCTIONAL PRINCIPLE**

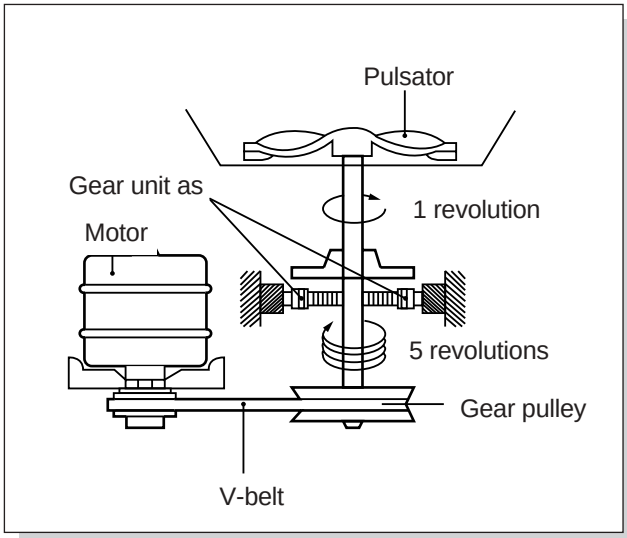
1 When the DRAIN MOTOR connected to the power source, the DRAIN MOTOR rotates with 900 r.p.m and revolves the pulley by gear assembly for reducing.
2 When the pulley is rotated, the pulley winds the wire to open the drain valve.
3 Therefore, rotation of pulley changed to the linear moving of wire.
4 The wire pulls the brake lever of Gear Mechanism Ass'y within 5 seconds.
5 After the wire pulled, gear assembly is separated from motor and condition of pulling is held by operation of the lever.
6 When the power is turned off, the drain valve is closed because the wire returns to original position.

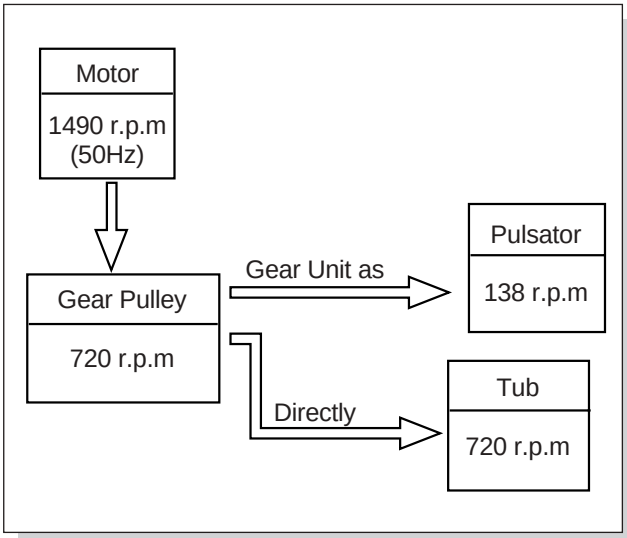
## Gear Mechanism Ass'y

The proper water currents is made by the rotation of pulsator at a low speed to prevent the damage to the small sized clothes.



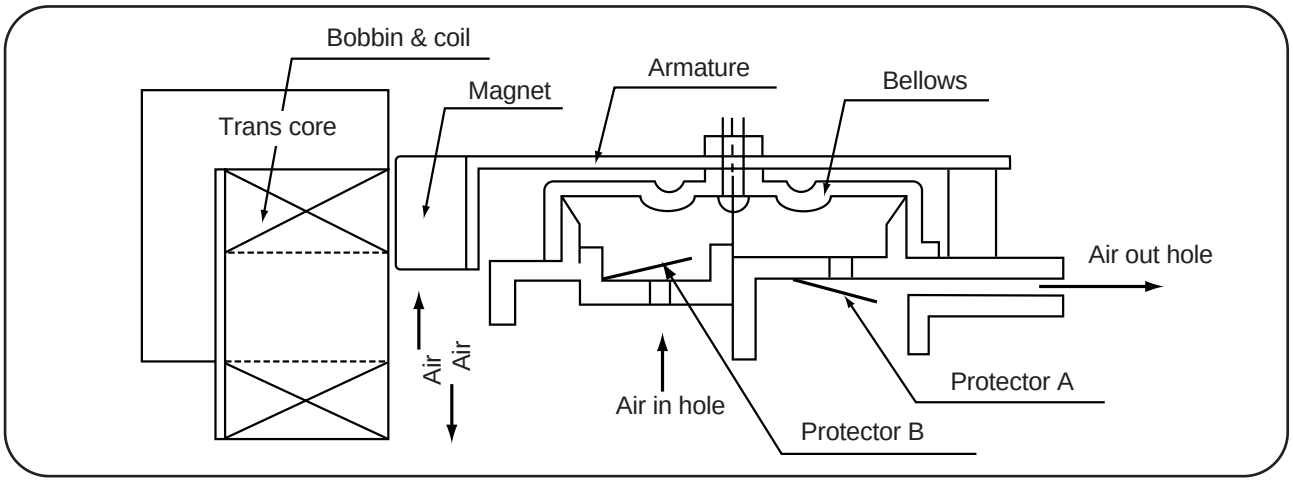




## Principle of Bubble Generator

**STRUCTURE**



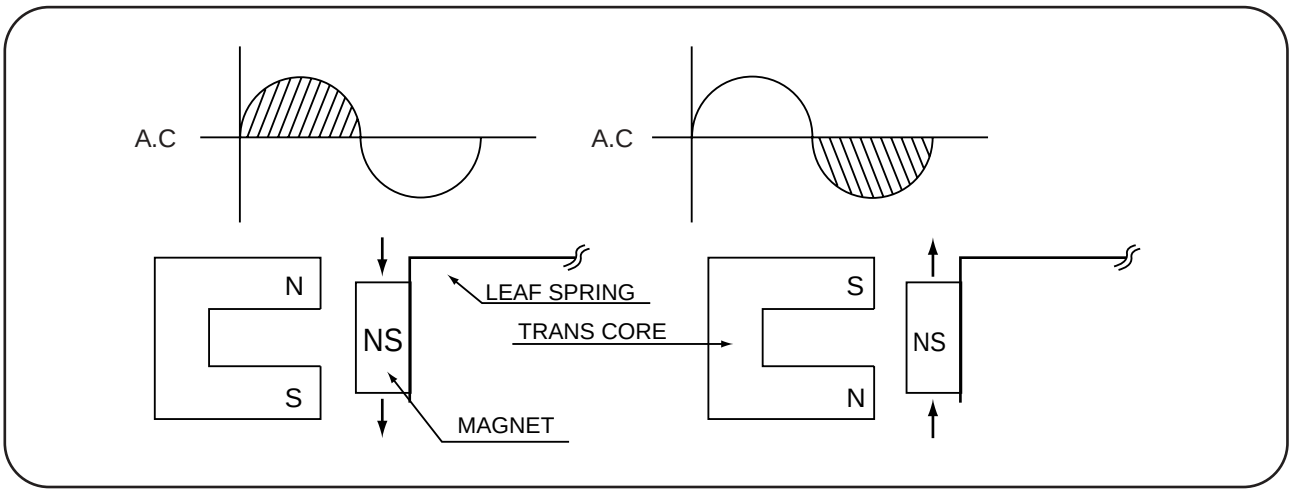
**PRINCIPLE OF INTAKE & OUTLET OF THE AIR**

INTAKE : ARMATURE moves up, and BELLOWS inhales the air. At the same time, protector B is open and A is close.

OUTLET : ARMATURE moves down, and BELLOWS exhausts the air. At the same time, protector B is close and A is opend.

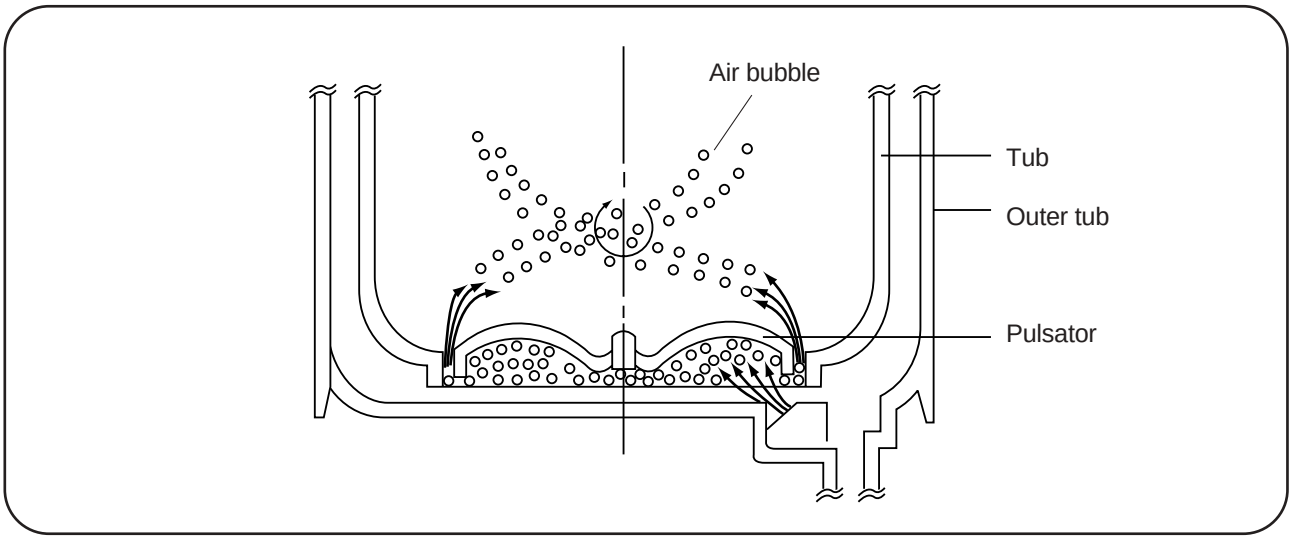
**FUNCTIONAL PRINCIPLE OF TRANS & MAGNET**

- The phase of A.C electric power changes to 60 cycle/second.
- The magnetic pole of trans core is changed by the change of the phase of A.C electric power.
- The core repeats push and pull (3600 times/min.) of the armature magnet.




## Functional Principle of Bubble Washing Machine

**ACROSS SECTION**




**FUNCTIONAL PRINCIPLE**

Bubble generator supplies the air from the bottom of outer tub to the inner space of pulsator, the air is dispersed by the rotation of pulsator. Air-bubble is created by the centrifugal force, and rises up.

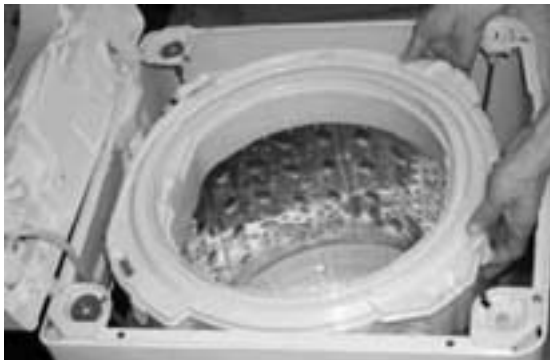
# 7. DIRECTIONS FOR DISASSEMBLY AND ADJUSTMENT

### Warning

BEFORE ATTEMPTING TO SERVICE OR ADJUST ANY PART OF THE WASHING MACHINE, DISCONNECT THE POWER CORD FROM THE ELECTRIC OUTLET.

## Gear Mechanism Ass'y Replacement

- Raise the top plate on the outer cabinet.
- Remove outer tub cover from the tub ass'y.



- Loosen the pulsator mounting screw and remove the pulsator.

- Remove the spinner shaft flange nut by using 'T' type box wrench.

- Remove the tub ass'y.

**NOTES**

To assemble the gear mechanism ass'y, reverse the disassembly procedure.

- Lay the front of the washer on the floor.
- Remove four bolts mounting the plate-gear protect by using a box wrench and remove plate-gear protect.
- Remove the V-belt.

- Remove four bolts mounting the gear mechanism ass'y by using a box wrench.

- Pull out the gear mechanism assy.

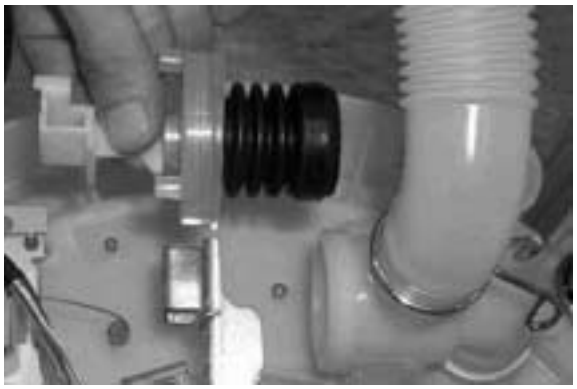
## Motor Synchronous And Valve Replacement(Non Pump Model)

- Lay the front of the floor.
- Loosen two special screw and motor synchronous.

- Take out the wire of motor synchonous from the bracket.
- Separate the motor sycnchronous from the base.

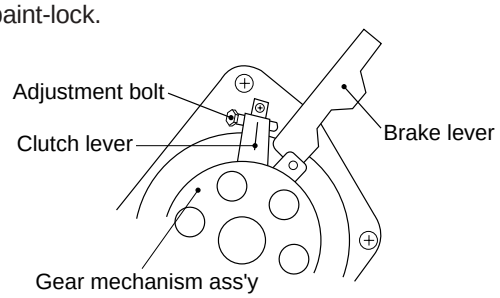
- Turn the valve by using screw driver as shown in picture.

- Remove the valve lid from the valve drain assy.



## Brake Adjustment

- Loosen the adjustment bolt and turn the adjustment bolt until the end of the bolt touches to the brake lever.
- Tighten the lock nut and apply a small amount of paint-lock.



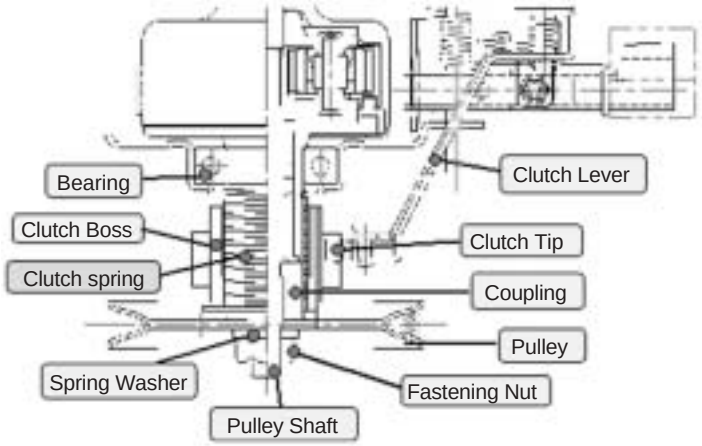

**NOTES:**

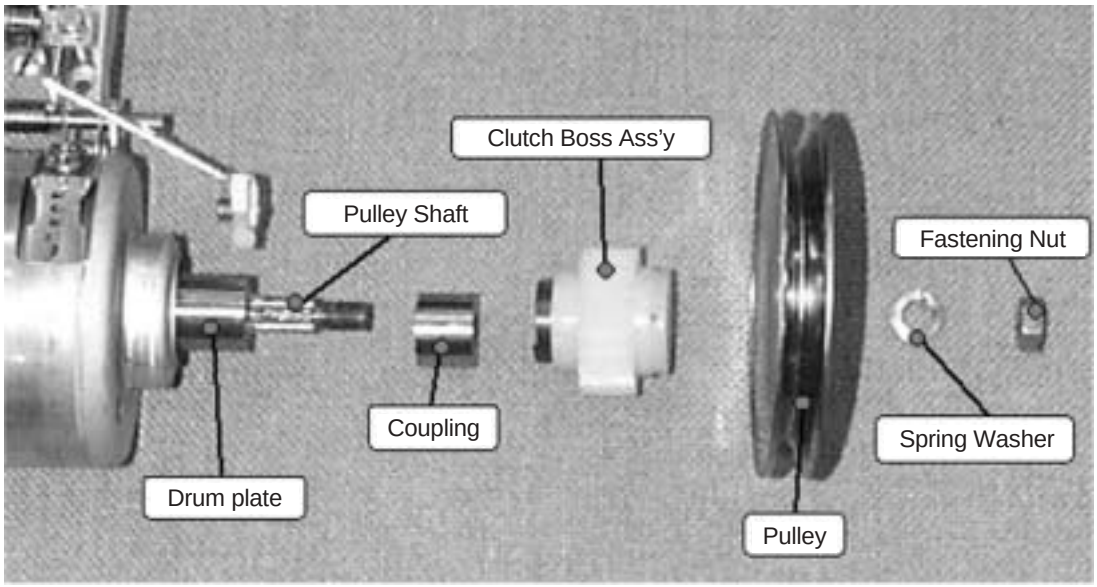
1. The brake adjustment has been made at the factory, so that it is not re-adjust.
   However, in case of insufficient brake operation, problem the upper procedure.

2. Overtightening of the adjustment bolt will cause poor brake performance.

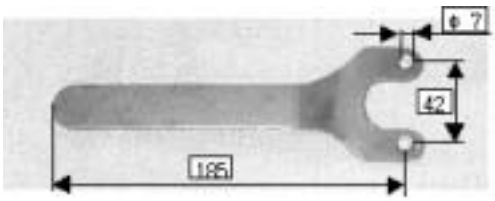
3. Undertightening of the adjustment bolt will cause continuous braking and thereby.
   cause the problems of the motor during the spingcycle.

## The structure of gear mechanism




**●TOOL FOR REPLACING THE CLUTCH BOSS ASSEMBLE●**

| Tool name | Specification | Q'ty |
|---|---|---|
| Fixing jig |  | 1 |
| Ratchet handle | | 1 |
| Socket and extension bar | socket : 10mm, 17mm | per each |
| Some cotton yarn | | some |

## how to check the clutch spring Problem

**PROBLEM**

1) THE LAUNDARY IS IN THE SPIN TUB UNEVENLY WHEN JUST STARTING SPIN PROCESS.

2) THEREFORE, IT CAUSE THE SERIOUS NOISE AND VIBRATION WHEN WASHING AND SPINNING PROCESS OR SUPPLING WATER IRREGULARY WHEN SPINNING PROCESS AND CAUSE SHORT OF SPIN PERFORMANCE.

**CHECKING METHOD**

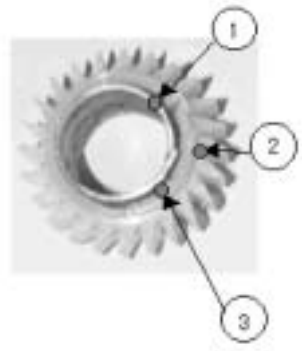
IN THIS CASE, YOU MUST EMPTY THE SPIN TUB FIRST.

1) TO CHECK THE REVOLUTION OF SPIN TUB. IF THE SPIN TUB DOES NOT REVOLVE AND ONLY THE PULSATOR IS TURNING, THAT IS CLUTCH SPRING DEFECT.

2) TO CHECK THE SPIN SPEED(RPM) BETWEEN SPIN TUB AND PULSATOR. IF YOU FIND THE DIFFERENT SPIN SPEED BETWEEN SPIN TUB AND PUSATOR, THIS IS ALSO CLUTCH SPRING DEFECT.

IN THIS CASE, WE ARE GOING TO SUPPLY THE CLUTCH BOSS ASSEMBLY INSTEAD OF GEAR MECHANISM ASSEMBLEY. PLEASE REFER TO FOLLOWING FIG.

**THE CLUTCH BOSS ASSEMBLY**

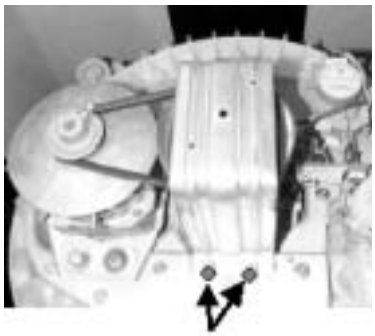
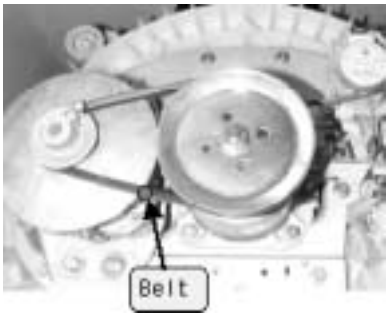
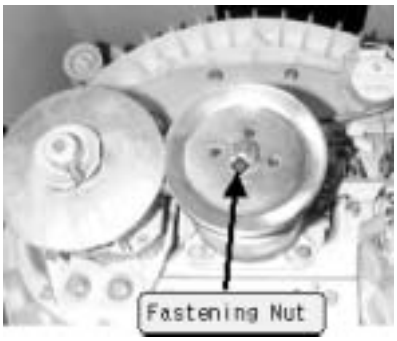



| NO. | PARTS NAME | SPECIFICATION | CODE | Q'TY |
|---|---|---|---|---|
| 1 | CLUTCH SPRING | 1.5*1.5 | 3615110000 | 1 |
| 2 | CLUTCH BOSS | PP | 3619301300 | 1 |
| 3 | GREASE | beacon#325 3g | | |
| PACKING METHOD | PACKING THE CLUTCH BOSS ASS'Y BY USING VINYL PACK | | | 1 |

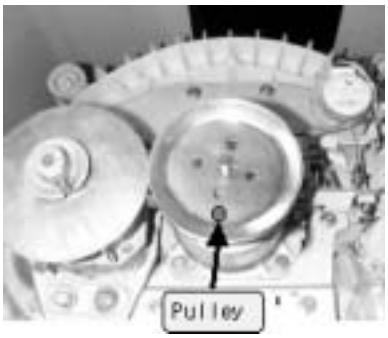
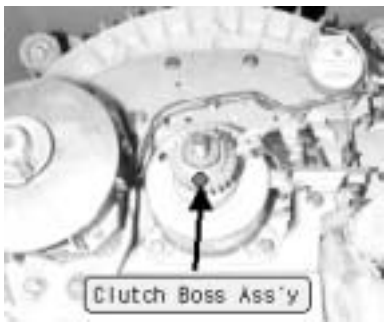
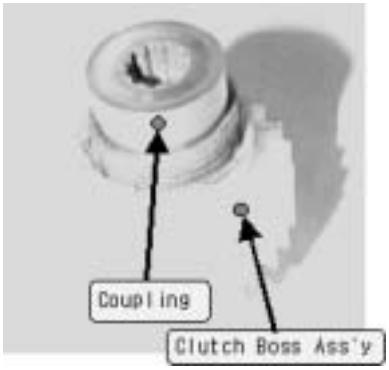
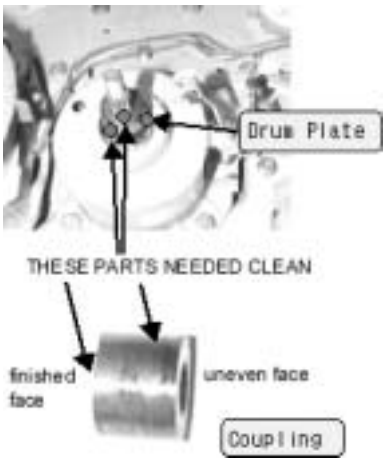
CLUTCH BOSS ASS'Y PART CORD : 3610028000

## The Process Of Disassemble

Disassemble 1

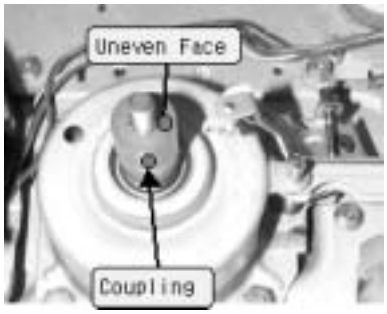
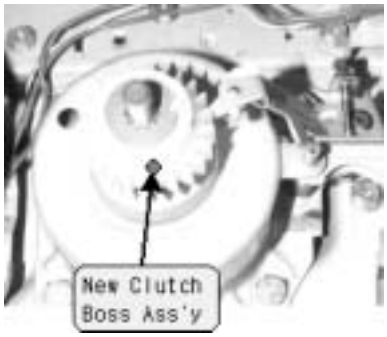
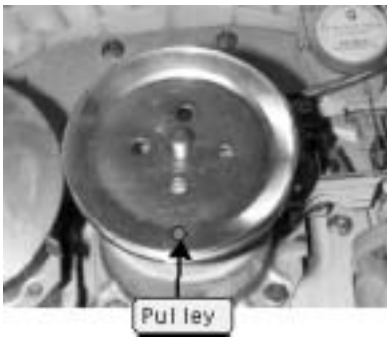
| No. | Process | | Notice |
|---|---|---|---|
| 1 |  Release screws marked 4-point | Remove the protector | Use wrench or driver<br>- ratchet handle<br>- extension bar<br>- socket : 10mm |
| 2 |  | Remove the v-belt | |
| 3 |  | Loosen the fastening nut | Use fixing jig for pulley as to see fig 1.<br>and 17mm-socket for nut |
| 4 | | Disassemble the spring washer | Take out plain washer if it has |

Disassemble 2

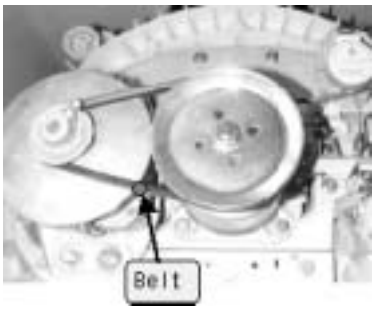
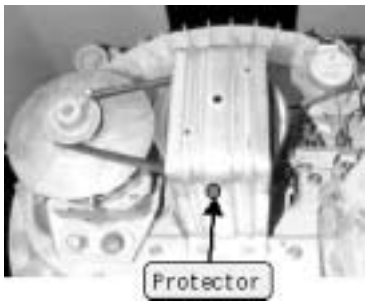
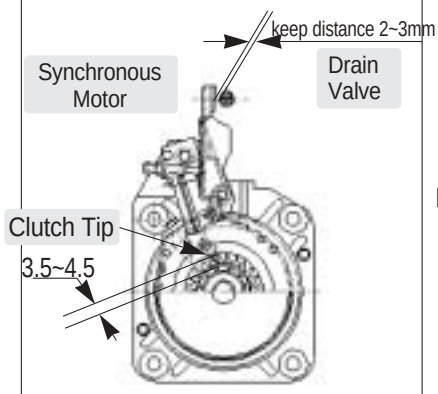
| No. | Process | | Notice |
|---|---|---|---|
| 5 |  | Disassemble the pulley | |
| 6 |  | Disassemble the clutch boss assembly | Catch the boss and pull upward with spiral rotate in the clockwise direction |
| 7 |  | Separate coupling from clutch boss ass'y | |
| 8 |  | Cleaning | Clean the drum plate, coupling surface and contact face between drum plate and coupling<br><br>It is necessary to keep cotton piece goods being dry and clean |

## The Process Of Assemble

Assemble 1

| No. | Process | | Notice |
|---|---|---|---|
| 1 |  | Assemble the coupling | Check the uneven face of coupling is assembled upward |
| 2 |  | Assemble the new clutch boss ass'y | - Push in the clutch boss ass'y with rotating on the clockwise direction.<br>- After assembling, rotate on the clockwise more 2~3 teeth and pull out the pulley shaft upward<br> |
| 3 |  | Assemble the pulley | |
| 4 | | Assemble the spring washer | If there was plain washer, you have to assemble plain washer the first and then assemble spring washer |

Assemble 2

| No. | Process | | Notice |
|---|---|---|---|
| 5 | | Assemble the fastening nut | - Use fixing jig and 17mm socket wrench as if disassembling, as fastening torque about 100~200kgf-cm.<br>- Check the end-play, up and downward and check the binding force, too much or not on bi-direct of rotation.<br> |
| 6 |  | Assemble the Belt | |
| 7 |  | Assemble the protector | |
| 8 |  | Final checking | Finally, check the distance between brake lever and control bolt. (2~3mm)<br>Also, check the interferance depth both clutch tip and clutch boss(3.5~4.5mm) |

**NOTES**

1. When replace the P.C.B. ASS'Y do not scratch the surface of the P.C.B. ASS'Y.
2. Disconnect the power cord from the electric outlet.

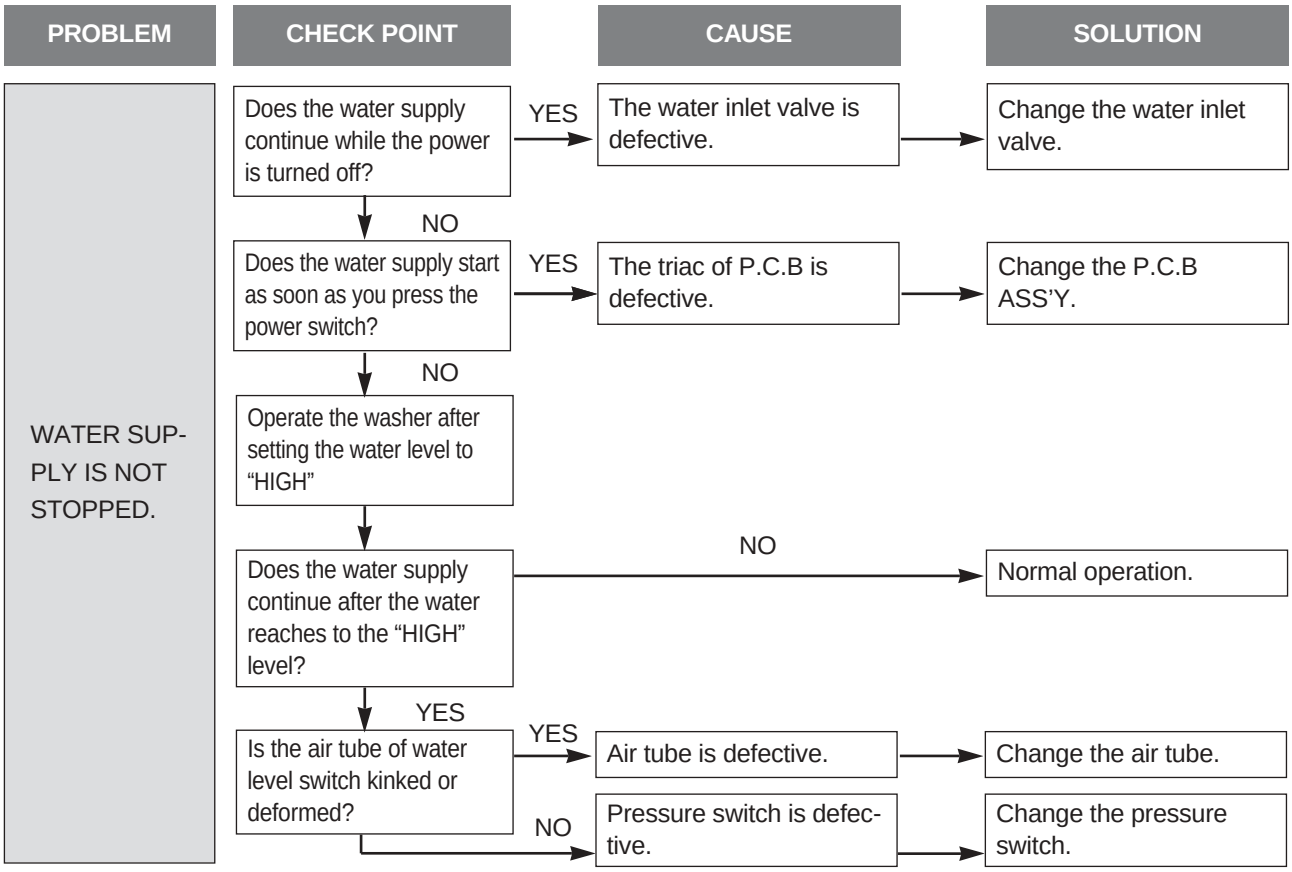
## Concerning Water Supply

| PROBLEM | CHECK POINT | CAUSE | SOLUTION |
|---|---|---|---|
| WATER IS NOT SUPPLIED. | Do you open the water tap? | NO | Open the water tap. |
| | Is the filter of the water inlet valve clogged with dirt? | YES | Clean the filter. |
| | Is the water pressure sufficient? (0.3~8 kgf/cm²) | NO | Increase the water pressure. |
| | Does the water inlet valve make operating sound? | NO — Water inlet valve is defective. | Change water inlet valve. |
| | Is the connector or the terminal connected properly? | NO — Improper connection of the connector or the terminal. | Connect the connector or the terminal properly. |
| | Is the output voltage of the P.C.B normal? | NO — P.C.B AS is defective. | Change the P.C.B AS. |
| | | YES — Lead wire is defective. | Change the lead wires. |

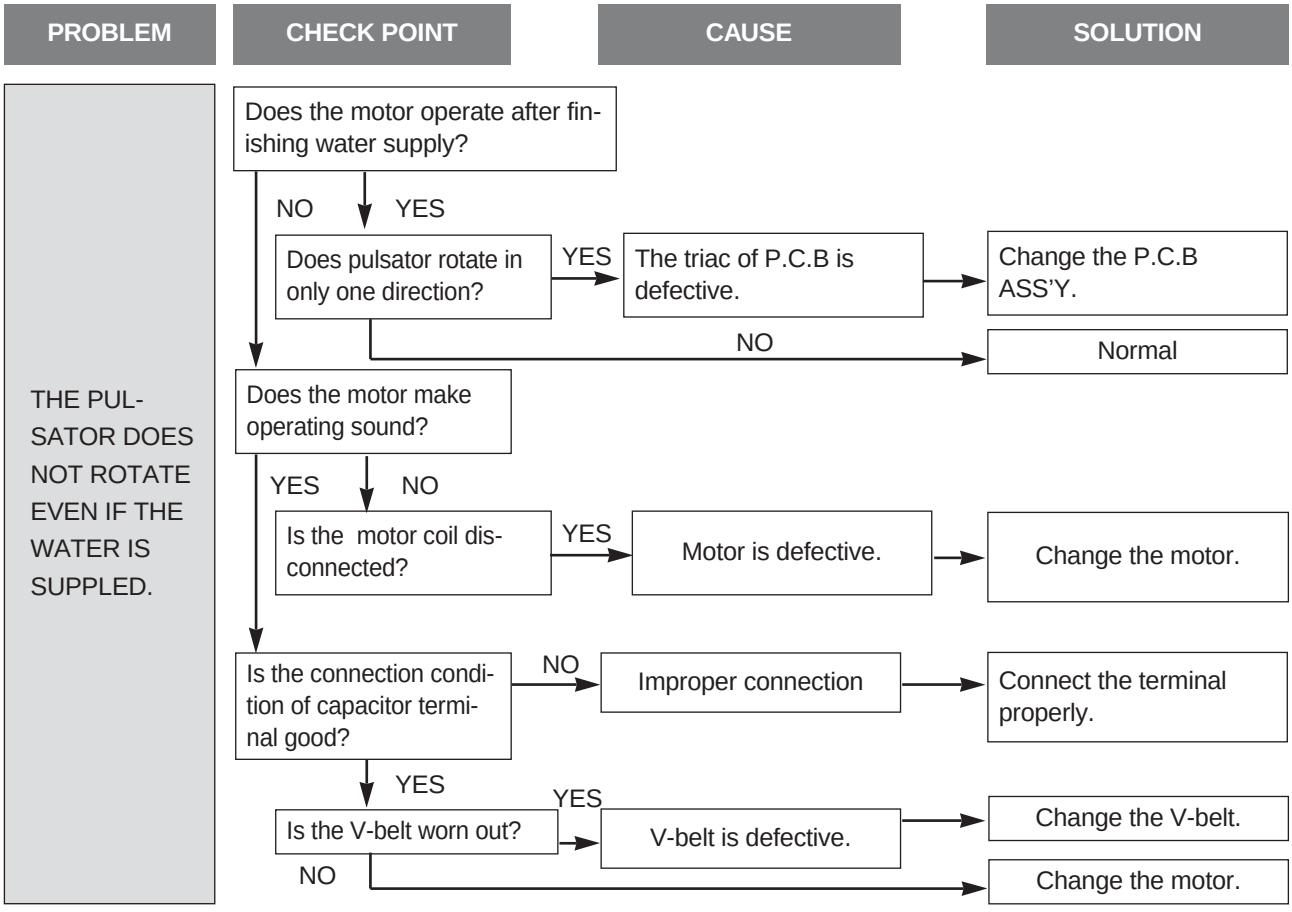
NOTE : Open the water tap fully and measure the flow rate.

| Flow rate(ℓ/min.) | 11.5 | 15.0 | 18.0 | 20.3 | 24.1 | 27.4 |
|---|---|---|---|---|---|---|
| Water pressure (kgf/cm²) | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 | 1.0 |

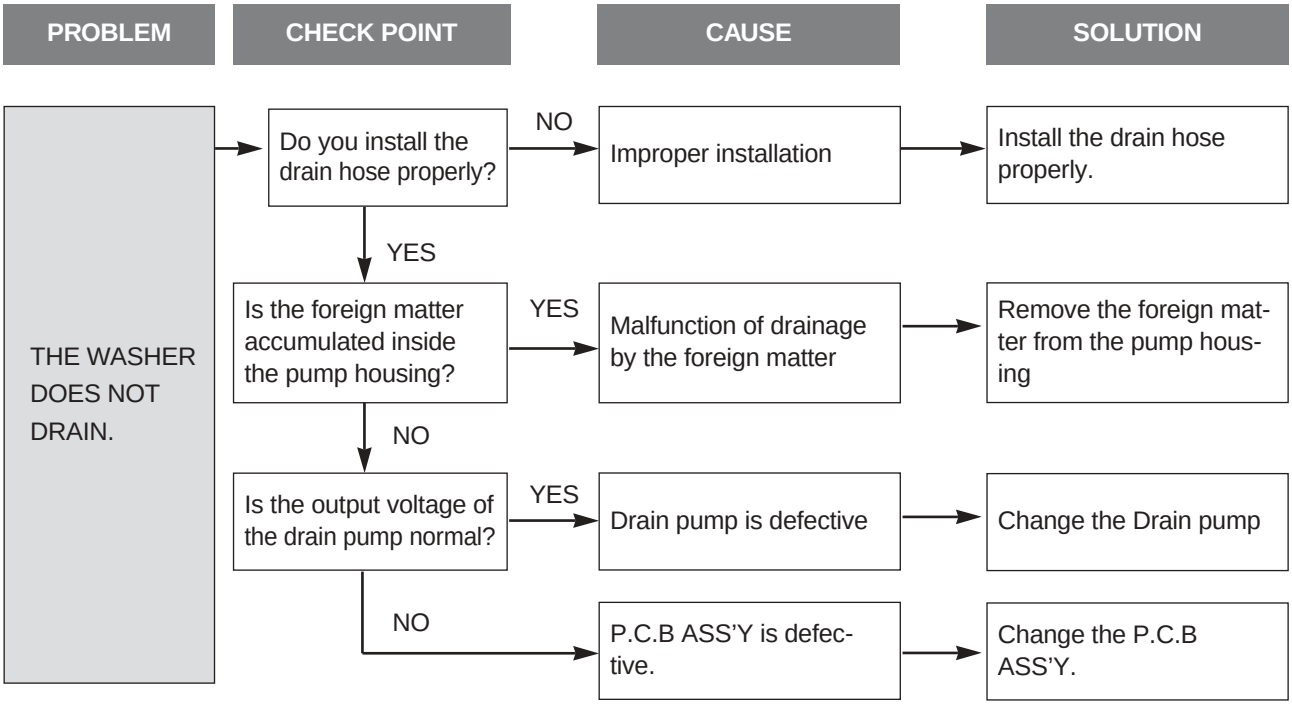
From the upper results, you know that the flow rate more than 11.5ℓ/min. is essential for water supply.


PROBLEM
CHECK POINT
CAUSE
SOLUTION
WATER SUP-PLY IS NOT STOPPED.
Does the water supply continue while the power is turned off?
YES
The water inlet valve is defective.
Change the water inlet valve.
NO
Does the water supply start as soon as you press the power switch?
YES
The triac of P.C.B is defective.
Change the P.C.B ASS'Y.
NO
Operate the washer after setting the water level to "HIGH"
Does the water supply continue after the water reaches to the "HIGH" level?
NO
Normal operation.
YES
Is the air tube of water level switch kinked or deformed?
YES
Air tube is defective.
Change the air tube.
NO
Pressure switch is defective.
Change the pressure switch.

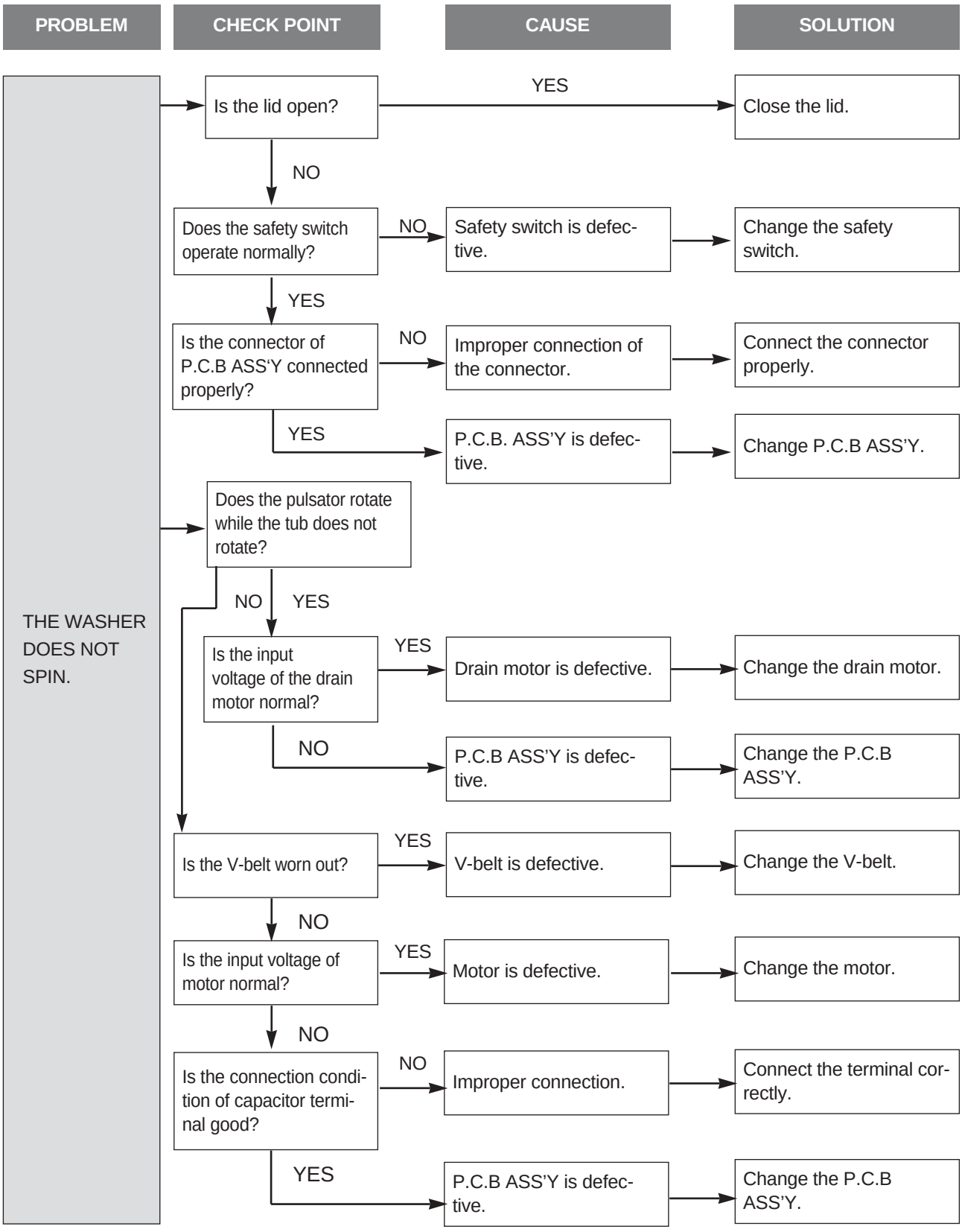
## Concerning Washing



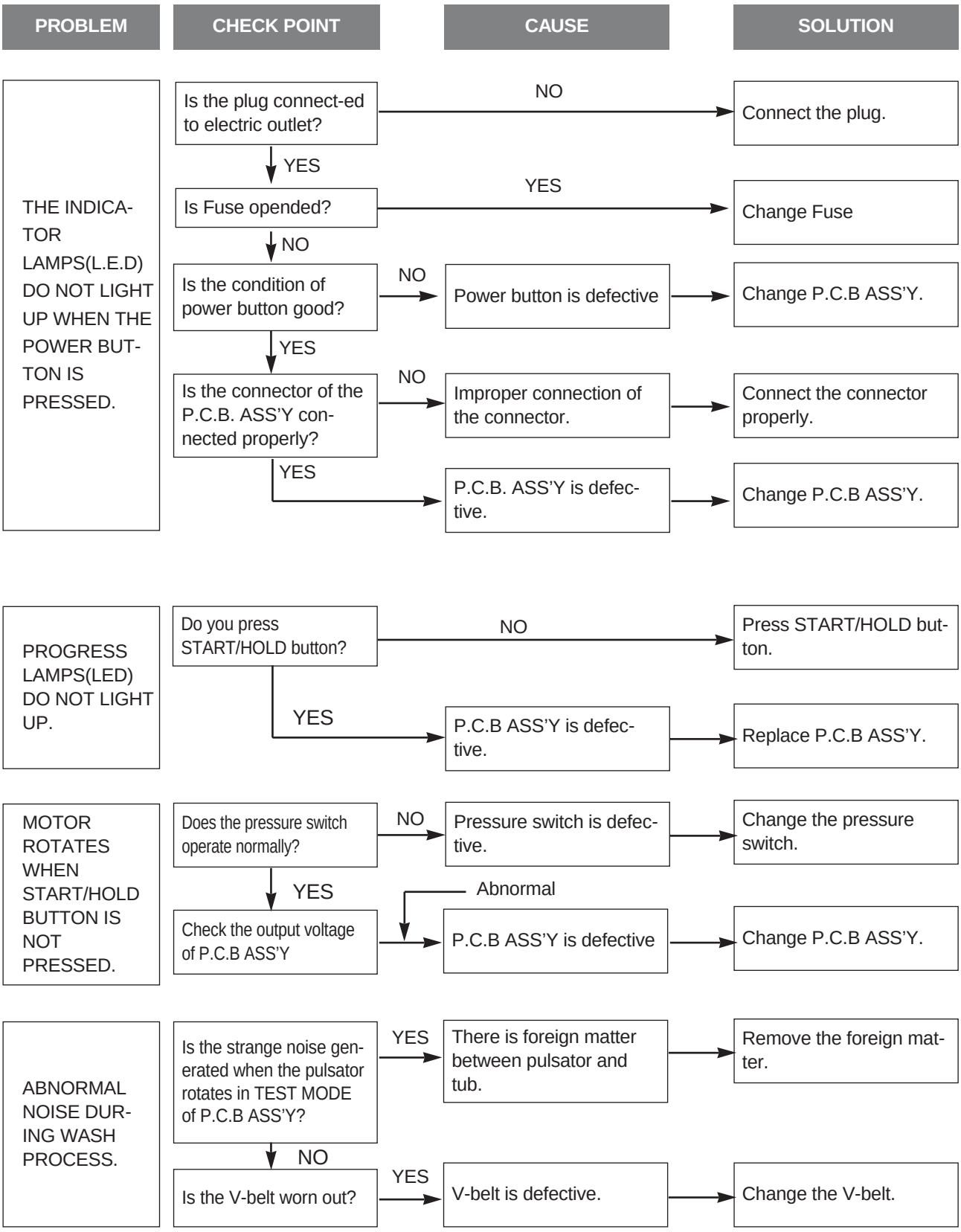
## Concerning Draining



## Concerning Spinning



## Concerning Operation

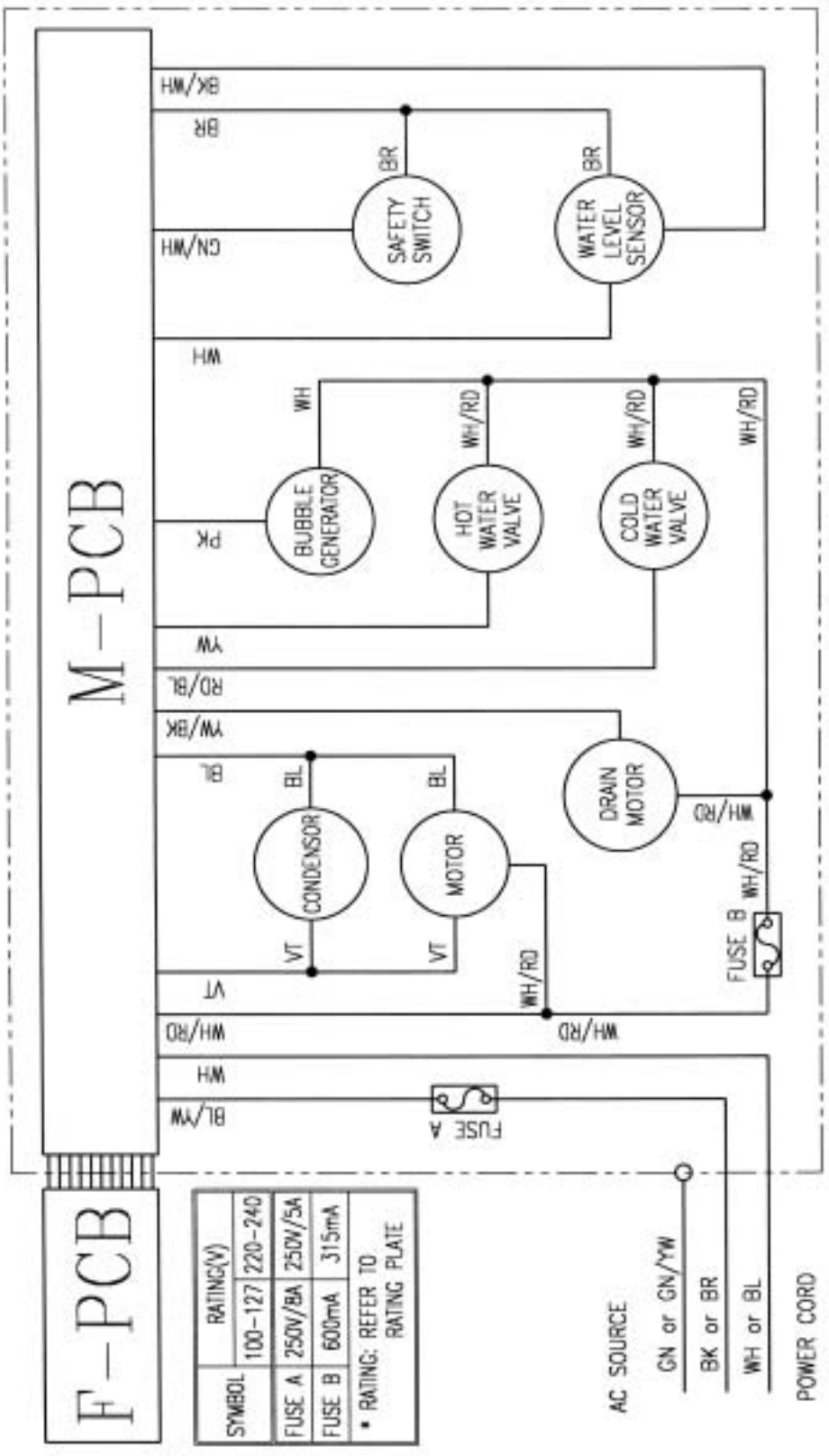


# 10. PRESENTATION OF THE P.C.B ASS'Y

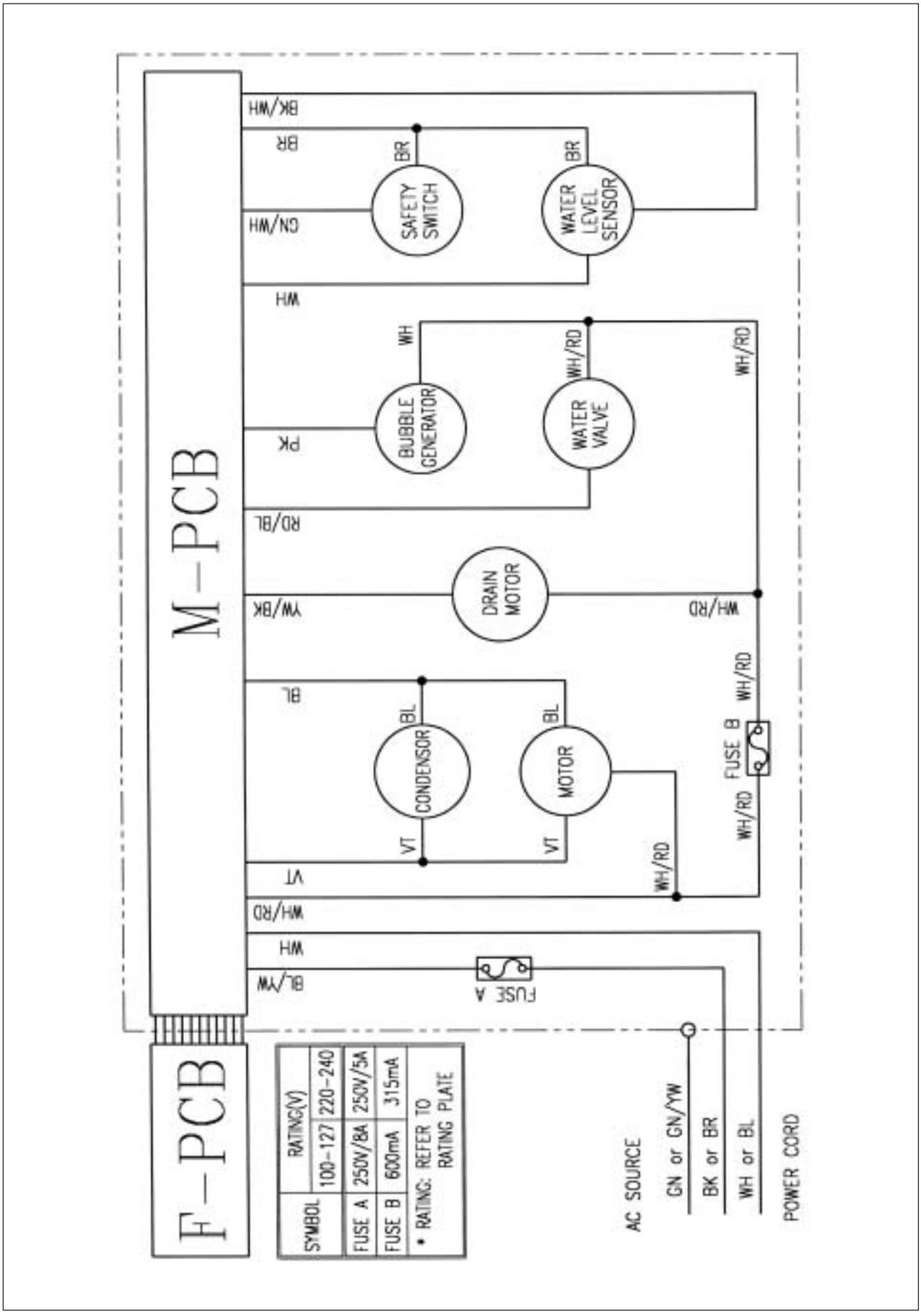
## Concerning Error Message

| MESSAGE | CAUSE | SOLUTION |
|---|---|---|
| | Improper installation of drain hose. | Install drain hose properly. |
| | The drain hose is blocked up by foreign matter. | Remove foreign matter from drain hose. |
| | Drain motor is inferior. | Change drain motor. |
| | The water tap is closed. | Open the water tap. |
| | The water inlet filter clogged. | Clean the water inlet filter. |
| | It passes over the 30 minutes, yet it doesn't come to assigned water level. | Check whether or not is comes to the assigned water level. |
| | Wash loads get uneven during spin. | Re-set wash loads evenly. |
| | Poor installation of the unit. | Proper installation. |
| | The lid is opened. | Close the lid. |
| | The safety switch is inferior. | Change the safety switch. |
| | The load sensing is inferior. After the load sensing operates about 7 seconds, the message is displayed during 1 second and water level is always fixed 'high'. | Change the P.C.B. ASS'Y. |
| | The water level sensing is inferior. | Check the water level sensor and the contact part of the connector. |

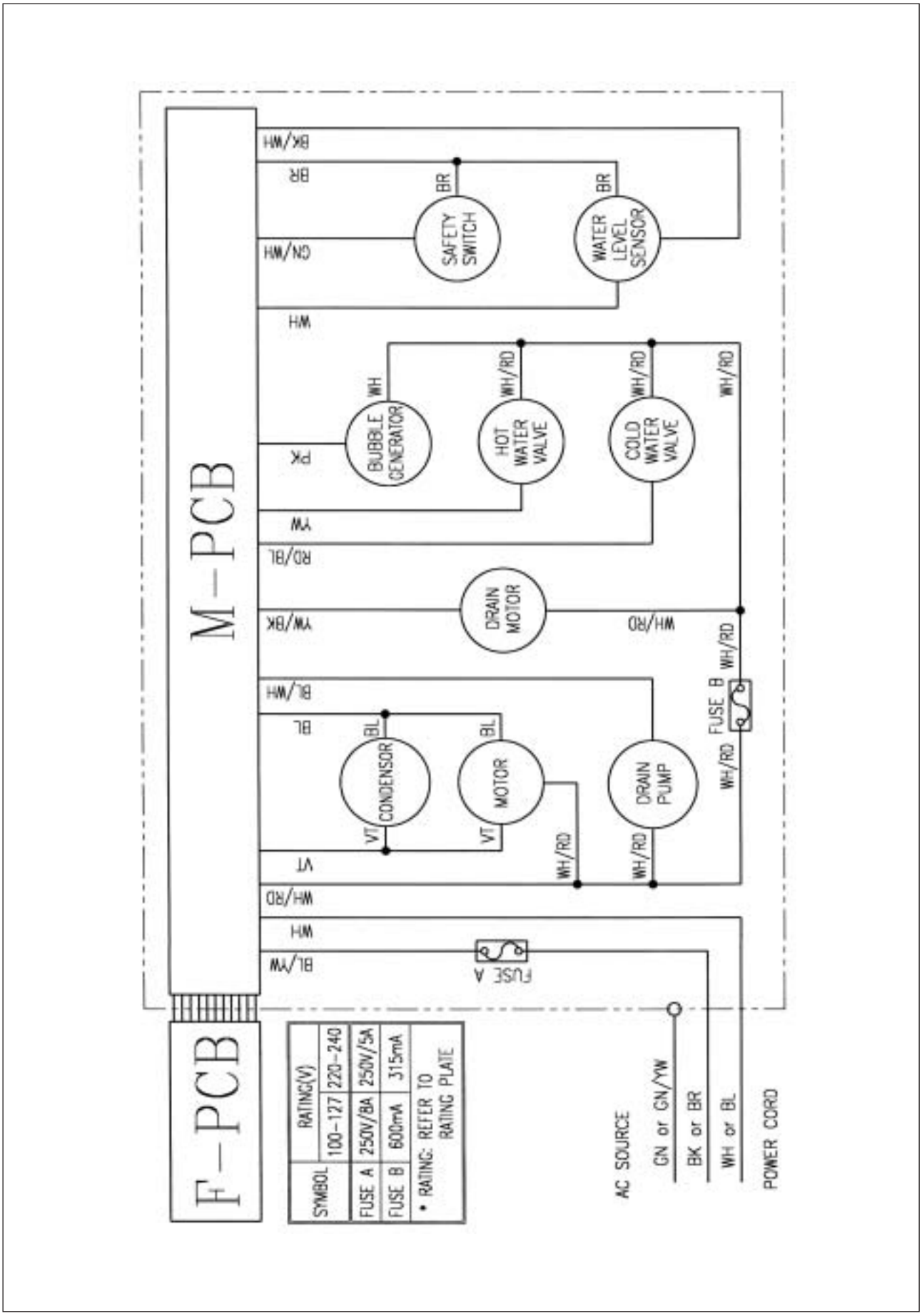
## Wiring Diagram [non-pump]



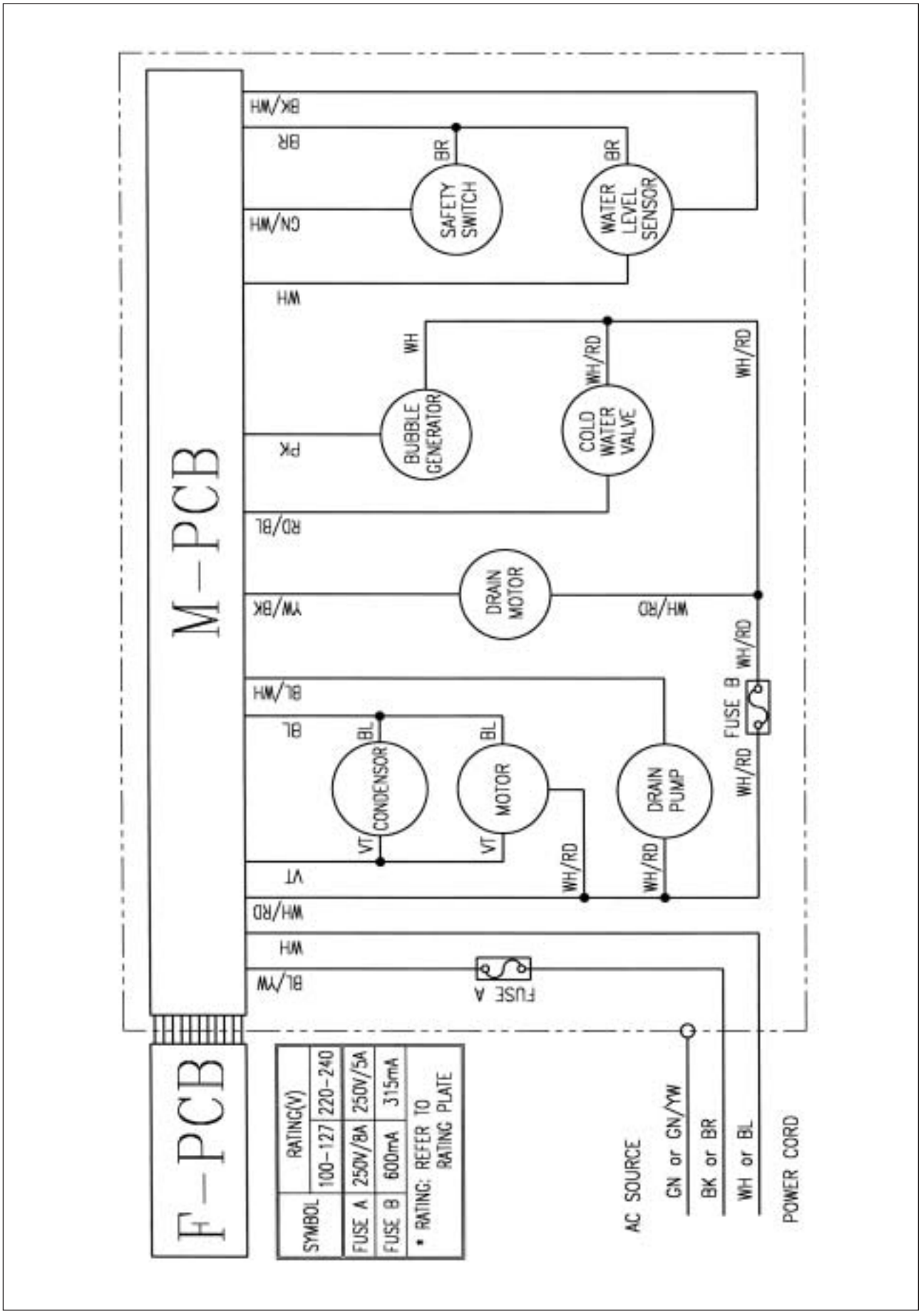
## [Non-Pump, Single Valve]



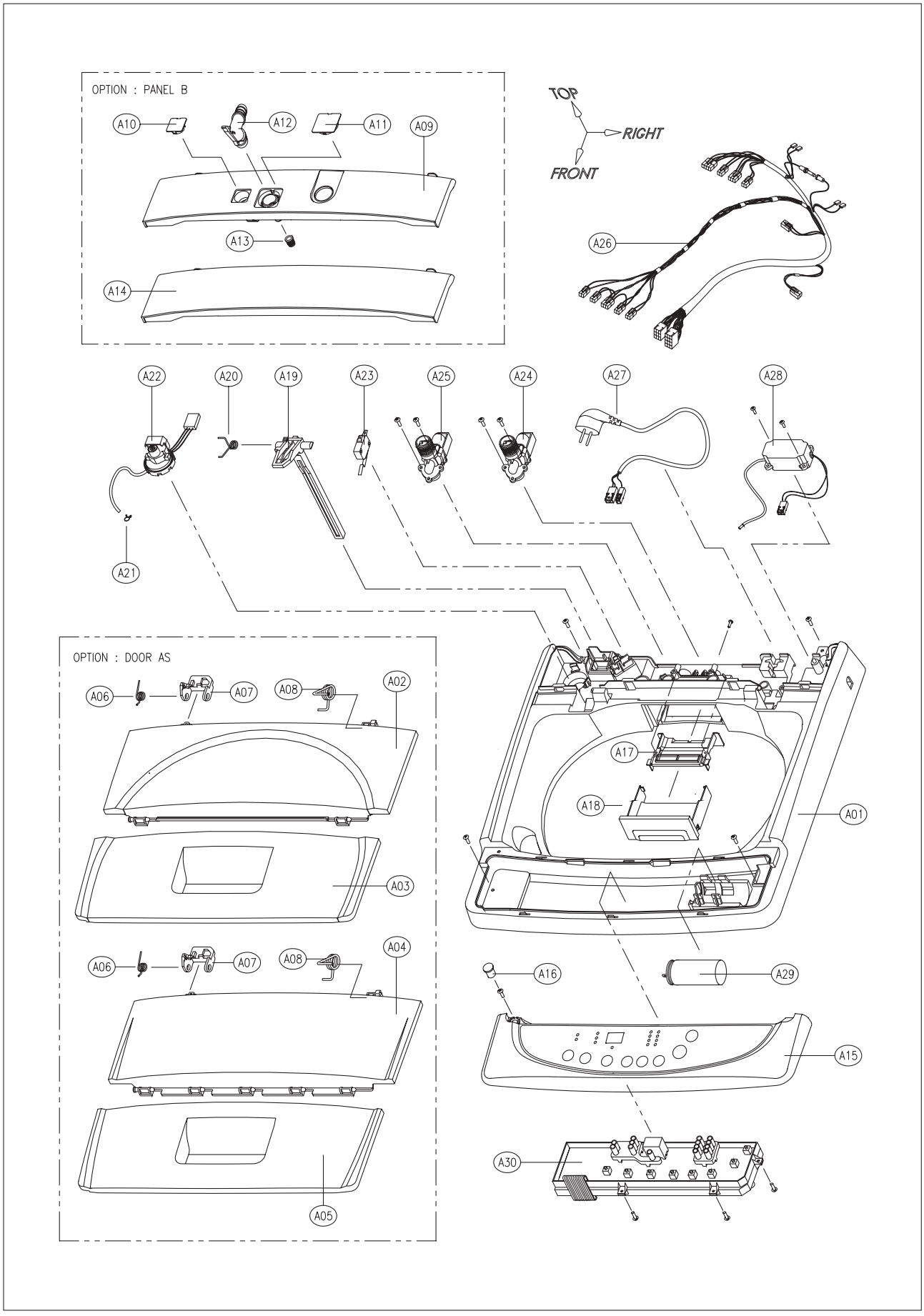
## [Pump]


M-PCB
F-PCB
BK/WH
BR
GN/WH
WH
SAFETY SWITCH
WATER LEVEL SENSOR
BUBBLE GENERATOR
HOT WATER VALVE
COLD WATER VALVE
PK
YW
RD/BL
YW/BK
DRAIN MOTOR
WH/RD
FUSE B
BL/WH
BL
CONDENSOR
MOTOR
DRAIN PUMP
VT
FUSE A
BL/YW
AC SOURCE
GN or GN/YW
BK or BR
WH or BL
POWER CORD
SYMBOL
RATING(V)
100~127
220~240
FUSE A
250V/8A
250V/5A
FUSE B
600mA
315mA
• RATING: REFER TO RATING PLATE

## [pump, single valve]



## Parts Diagram



## Parts List

| NO. | PART NAME | PART CODE | SPECIFICATION | REMARK |
|---|---|---|---|---|
| A01 | PLATE T | 3614521500 | PP | |
| A02 | DOOR B AS | 3611797600 | ABS | OPTION : |
| A03 | DOOR F AS | 3611797700 | ABS | TRANSPARENT |
| A04 | DOOR B | 3611797300 | PP | OPTION : |
| A05 | DOOR F | 3611797400 | PP | NOT TRANSPARENT |
| A06 | SPRING PLATE LEVER | 3615111800 | SUS | |
| A07 | PLATE LEVER | 3614521400 | PP | |
| A08 | SPRING DOOR | 3615112100 | SUS D1.4 | |
| A09 | PANEL B | 3614233400 | PP | |
| A10 | CAP WATER | - | PP | OPTION : |
| A11 | CAP DRY | - | PP | UPWARD WATER VALVE |
| A12 | CONNECTOR HOSE | 3619506600 | PS | |
| A13 | PACKING | 3614004100 | SILICON | |
| A14 | PANEL B | 3614233600 | PP | OPTION : BACKWARD |
| A15 | PANEL F | 3614233500 | ABS | |
| A16 | CAP REAR | 3610902600 | CR | |
| A17 | NOZZLE DETERGENT | 3618102600 | PP | |
| A18 | CASE DETERGENT | 3611130700 | PP | |
| A19 | LEVER SAFETY S/W | 3613701800 | POM | |
| A20 | SPRING LEVER SAFETY | 3615111700 | SUS D1.0 | |
| A21 | CLAMP | 4507D08150 | MFZN HOSE ID=7PIE | |
| A22 | SENSOR PRESSURE AS | 3614801300 | CDN-D6N | |
| A23 | SWITCH COVER AS | 4507K44031 | 15A 220VAC 1006FD | |
| A24 | VALVE INLET | 3615403510 | AC 100-130V/50,60Hz COLD | BACKWARD |
| | | 3615402010 | AC 220V/60Hz COLD | |
| | | 3615403711 | AC 220-240V/50Hz COLD | |
| | | 3615403530 | AC 100-130V/50,60Hz COLD | UPWARD |
| | | 3615402030 | AC 220V/60Hz COLD | |
| A25 | VALVE INLET | 3615403630 | AC 100-130V/50,60Hz HOT | BACKWARD |
| | | 3615402130 | AC 220V/60Hz HOT | |
| | | 3615403831 | AC 220-240V/50Hz HOT | |
| A26 | HARNESS AS | 3612787920 | 8A COLD BUBBLE | SINGLE VALVE |
| | | 3612787925 | 5A COLD BUBBLE | |
| | | 3612787930 | 8A COLD/HOT BUBBLE | DUAL VALVE, PUMP |
| | | 3612787935 | 5A COLD/HOT BUBBLE | |
| | | 3612787940 | 8A COLD/HOT NON-BUBBLE | |
| | | 3612787945 | 5A COLD/HOT NON-BUBBLE | |
| | | 3612787970 | 8A COLD/HOT BUBBLE | DUAL VALVE |
| | | 3612787975 | 5A COLD/HOT BUBBLE | |
| | | 3612787980 | 8A COLD/HOT NON-BUBBLE | |
| | | 3612787985 | 5A COLD/HOT NON-BUBBLE | |

| NO. | PART NAME | PART CODE | SPECIFICATION | REMARK |
|---|---|---|---|---|
| A27 | CORD POWER AS | 3611337000 | F H05VV 3X0.75 1.9M WH | CHILE |
| | | 3611337100 | RVCTFK 2X0.75 1.9M GY | JAPAN |
| | | 3611337200 | N LFC-3R 3X0.75 1.9M GY | AUSTRALIA |
| | | 3611337300 | F H05VV 3X0.75 1.9M WH | ITALY |
| | | 3611337400 | RW-300/500 3X0.75 1.9M | PR. CHINA |
| | | 3611337500 | VCTF 3X0.75 1.9M | INDIA |
| | | 3611337600 | U VCTF 3X0.75 1.9M GY | SOUTH KOREA |
| | | 3611337700 | P VCTF 3X0.75 1.9M WH | KUWAIT |
| | | 3611337800 | VCTF 3X0.75 1.9M WH | KUWAIT, OMAN |
| | | 3611337900 | H05VV-F 3X0.75 1.9M WH | MALAYSIA |
| | | 3611338000 | H05VV-F 3X0.75 1.9M | SINGAPORE |
| | | 3611338100 | A-VCTFK 2X0.75 1.9M GY | TAIWAN |
| | | 3611338200 | F H05VV 3X0.75 1.9M BK | EUROPEAN NATIONS |
| | | 3611338300 | C SJT 3X18AWG 1.9M GY | PANAMA, USA |
| | | 3611338400 | H05VV-F 3X0.75 1.9M GY | ARGENTINA |
| | | 3611338500 | H05VV-F 3X0.75 1.9M GY | SOUTH AFRICA |
| | | 3611338600 | P VCTF 3X0.75 1.9M WH | OMAN |
| A28 | UNIT BUBBLE AS | 3618946301 | AC220-240V L=750 PAD | OPTION |
| | | 3618906401 | AC110-130V L=750 PAD | |
| A29 | UNIT CAPACITOR | 3618911600 | 8.4μF 400VAC CAN-TYPE | AC220-230V/50,60Hz |
| | | 3618911900 | 30μF 200VAC CAN-TYPE | AC120-127V/60Hz |
| | | 3618912000 | 33.6μF 200VAC CAN-TYPE | AC110V/60Hz |
| | | 3618959700 | 7.5μF 400VAC CAN-TYPE | AC240V/50Hz |
| A30 | PCB AS | PRPSSWU602 | AC 110-130V/60Hz | NON-PUMP |
| | | PRPSSWU603 | AC 220-240V/50,60Hz | |
| | | PRPSSWU701 | AC 110-130V/60Hz | PUMP |
| | | PRPSSWU702 | AC 220-240V/50,60Hz | |
| | | PRPSSWU703 | AC 240V/50Hz | PUMP, AUSTRALIA |
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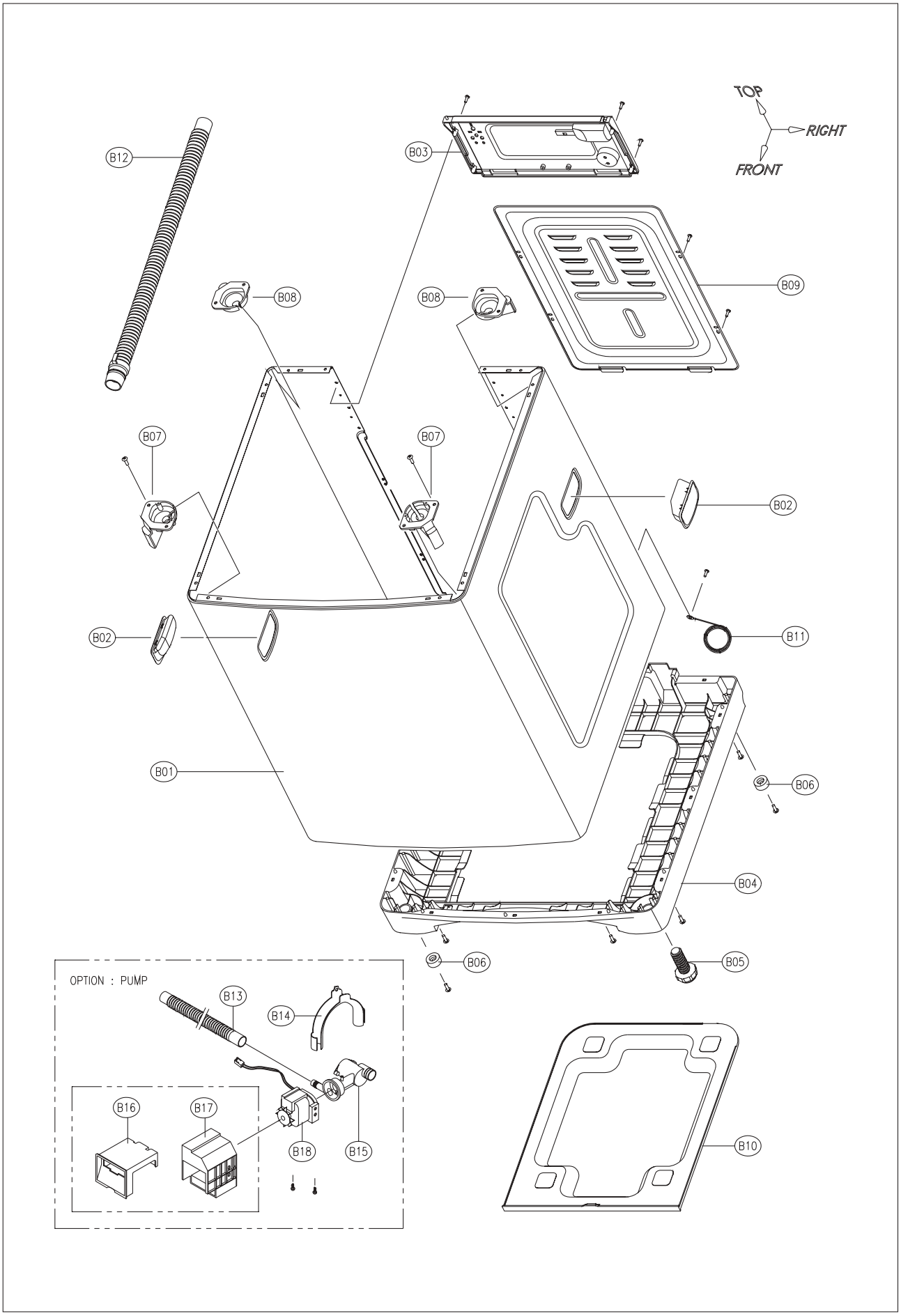
TOP
RIGHT
FRONT
B12
B03
B08
B08
B09
B07
B07
B02
B02
B11
B01
B06
B04
B06
B05
OPTION : PUMP
B13
B14
B16
B17
B18
B15
B10

## Parts List

| NO. | PART NAME | PART CODE | SPECIFICATION | REMARK |
|---|---|---|---|---|
| B01 | CABINET | 3610809600 | PAINTED STEEL SHEET 0.6T | |
| B02 | HANDLE CABINET | 3612603300 | PP | |
| B03 | PLATE UPPER | 3614521600 | PP | |
| B04 | BASE U | 3610389100 | PP LOW H=45 | DWF-750/800 |
| | | 3610389200 | PP HIGH H=135 | DWF-752/802 |
| B05 | LEG ADJUST AS | 3617702100 | DWF-1089W2 | |
| B06 | LEG FIX | 3612100310 | SBR | |
| B07 | HOLDER SUPPORT F | 3613044600 | FRPP | FRONT |
| B08 | HOLDER SUPPORT B | 3613044500 | FRPP | REAR |
| B09 | COVER BACK | 3611413600 | SPG 0.4T | |
| B10 | COVER UNDER | 3611418500 | PP | OPTION |
| B11 | HARNESS OUTER | 3610068700 | 50/0.18GREEN ST710489-2 | 2-WIRE POWER CORD |
| B12 | HOSE DRAIN O AS | 3613213500 | LDPE L=833 | NON-PUMP |
| B13 | HOSE DRAIN O AS | 3613218800 | LDPE/EVA L=1600 PUMP | PUMP |
| B14 | GUIDE DRAIN HOSE | 3612502300 | PP | |
| B15 | FILTER AS | 3611904900 | DWF-800WNP E-TYPE | ASKOLL PUMP |
| | | 3611901530 | DWF-5590DPNE E-TYPE | DMI PUMP |
| B16 | COVER PUMP | 3611405320 | PP | DMI PUMP |
| B17 | COVER PUMP | 3611419100 | V0 ASKOLL 220-240V/50Hz | ASKOLL PUMP |
| | | 3611419200 | HB 110V,220V/60Hz | |
| B18 | MOTOR SHADED POLE | 3963514000 | AC 220-240V/50Hz | DMI PUMP |
| | | 3963514001 | AC 220V/60Hz | |
| | | 3963514002 | AC 110V/60Hz | |
| | | 3963514003 | AC 127V/60Hz | |
| | UNIT DRAIN PUMP | 3618958900 | AC 220-240V/50Hz | ASKOLL PUMP |
| | | 3618959000 | AC 220V/60Hz | |
| | | 3618959100 | AC 110-127V/60Hz | |
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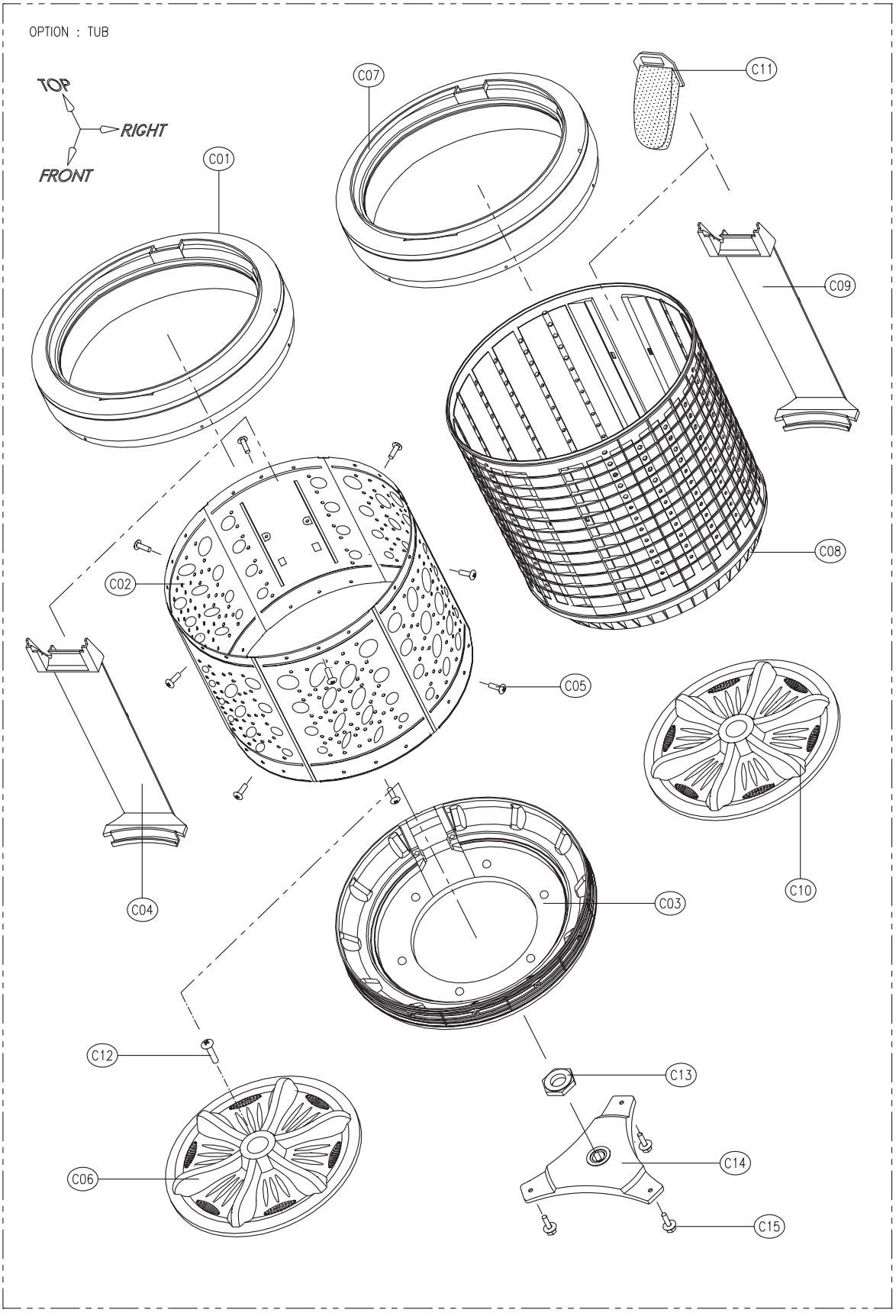
OPTION : TUB
TOP
RIGHT
FRONT
C01
C02
C03
C04
C05
C06
C07
C08
C09
C10
C11
C12
C13
C14
C15

## Parts List

| NO. | PART NAME | PART CODE | SPECIFICATION | REMARK |
|---|---|---|---|---|
| C01 | BALANCER AS | 3616104700 | DWF-6010 | STAINLESS STEEL |
| C02 | TUB I | 3618808500 | SUS 0.5T | |
| C03 | TUB U | 3618808601 | PP | |
| C04 | GUIDE FILTER | 3612507000 | DWF-6010NP | |
| C05 | SPECIAL SCREW | 3616003700 | SUS 5.5X16 | |
| C06 | PULSATOR AS | 3719706700 | DWF-800WNP | |
| C07 | BALANCER AS | 3616104500 | DWF-5510PN | PLASTIC |
| C08 | TUB I | 3618808100 | PP | |
| C09 | GUIDE FILTER | 3612503900 | PP | |
| C10 | PULSATOR AS | 3619706600 | DWF-750WTP | |
| C11 | FILTER AS | 4505E82002 | POLYESTER 90X120 INSERT | |
| C12 | SPECIAL SCREW | 3616002901 | SUS 304 NON-SILOCK | |
| C13 | SPECIAL NUT | 4507D83080 | SUS 304 | |
| C14 | FLANGE TUB | 3617201100 | 5KG 3-FOOT | |
| C15 | SPECIAL SCREW | 4505E05040 | 5X24 | |
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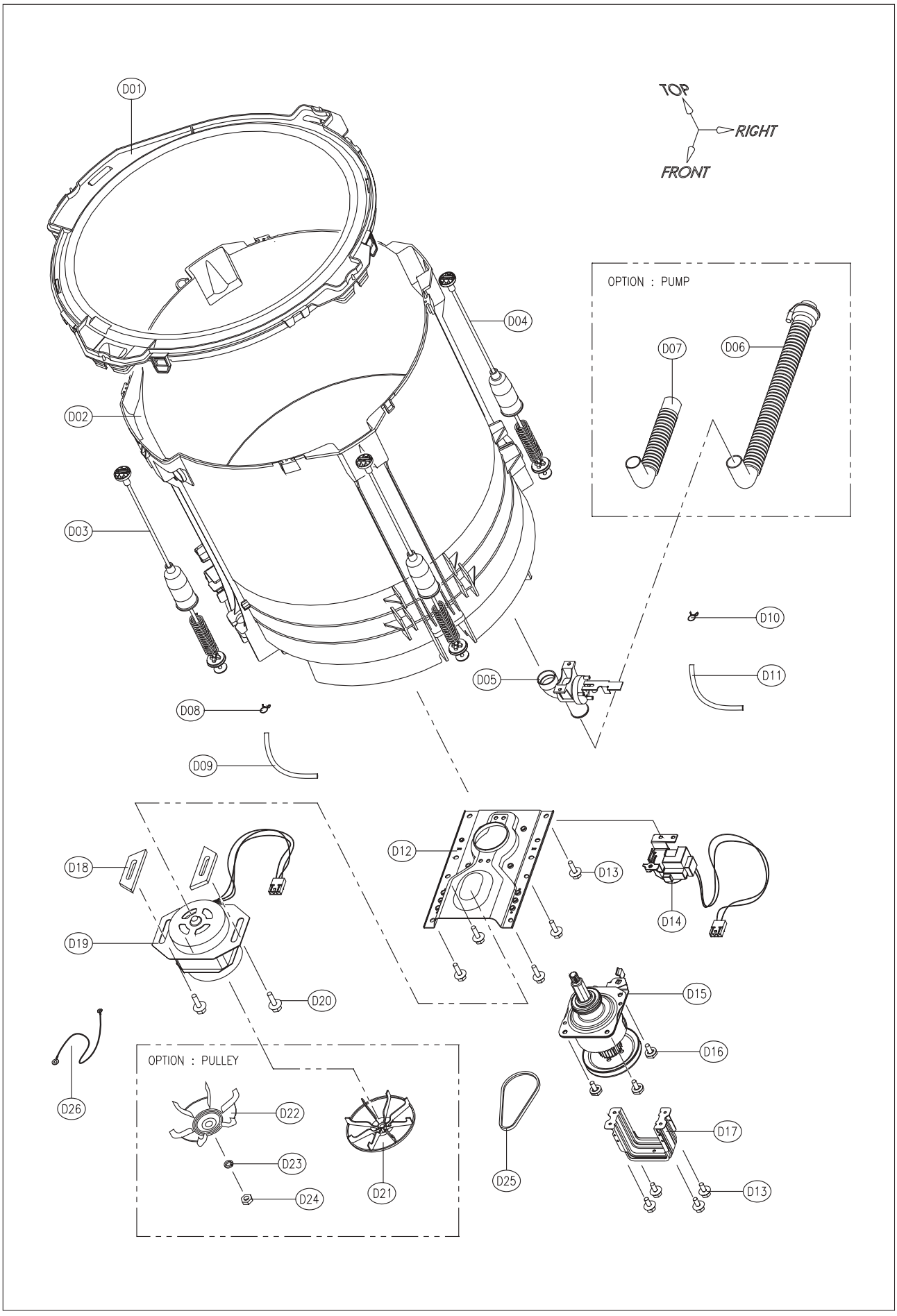
D01
TOP
RIGHT
FRONT
OPTION : PUMP
D07
D06
D04
D02
D03
D10
D11
D05
D08
D09
D18
D12
D13
D14
D19
D20
D15
D16
D17
D13
D26
OPTION : PULLEY
D22
D23
D24
D21
D25

## Parts List

| NO. | PART NAME | PART CODE | SPECIFICATION | REMARK |
|---|---|---|---|---|
| D01 | COVER TUB O | 3611414600 | PP | |
| D02 | TUB O | 3618817600 | PP | |
| D03 | SUSPENSION AS F | 3619804200 | FRONT | |
| D04 | SUSPENSION AS B | 3619804300 | REAR | |
| D05 | VALVE DRAIN AS | 3615408500 | DWF-750M | NON-PUMP |
| D06 | HOSE DRAIN I AS | 3613227000 | LDPE+EVA DWF-752MN | |
| D07 | HOSE DRAIN I AS | 3613226900 | LDPE+EVA DWF-800WNP | PUMP |
| D08 | CLAMP | 4507D08150 | MFZN HOSE ID=7PIE | OPTION : PUMP |
| D09 | HOSE | 4500D08210 | ID=4.0 | |
| D10 | CLAMP | 4507D08150 | MFZN HOSE ID=7PIE | OPTION : BUBBLE |
| D11 | HOSE | 4500D08210 | ID=4.0 | |
| D12 | BASE | 3610302900 | SECEN 1.2T | |
| D13 | SPECIAL SCREW | 3616007000 | SCM24H 6.5X24 | |
| D14 | MOTOR SYNCHRONOUS | 3966010410 | 220-240V/50,60Hz ST=23 | |
| | | 3966320830 | 100-127V/60Hz ST=23 | |
| D15 | GEAR MECHANISM | 3617307310 | GM-0600-KJ4P0 | |
| D16 | BOLT HEX | 7640802011 | 6B-1 8X20 SW MFZN | |
| D17 | PROTECTOR GEAR | 3618303600 | SGCC 1.2T | |
| D18 | SPECIAL WASHER | 4505E34030 | PP | |
| D19 | UNIT MOTOR AS | 3618959900 | 110-127V/60Hz W1D30CC004 | |
| | | 3618960100 | 220V/60Hz W1D0UC004 | |
| | | 3608960200 | 220-240V/50Hz 30VC004 | |
| D20 | BOLT HEX | 7650802511 | 6B-1 8X25 HS MFZN | |
| D21 | PULLEY MOTOR AS | 3618401420 | DP=53.0 50Hz ALDC | AC220-240V/50Hz |
| | | 3618402800 | DP=48.5 60Hz ALDC | AC220V/60Hz |
| D22 | PULLEY MOTOR AS | 3618432000 | DP=48.5 60Hz PRESS | AC110V~127V/60Hz |
| D23 | WASHER SPRING | 7401008011 | SW-8 MFZN | |
| D24 | NUT HEX | 7392800011 | M8XP1.25 MFZN | |
| D25 | BELT V | 4507D34020 | M20 | 50Hz |
| | | 4507B34020 | M19.5 | 60Hz |
| D26 | HARNESS EARTH INNER | 3612757010 | L=560 | |
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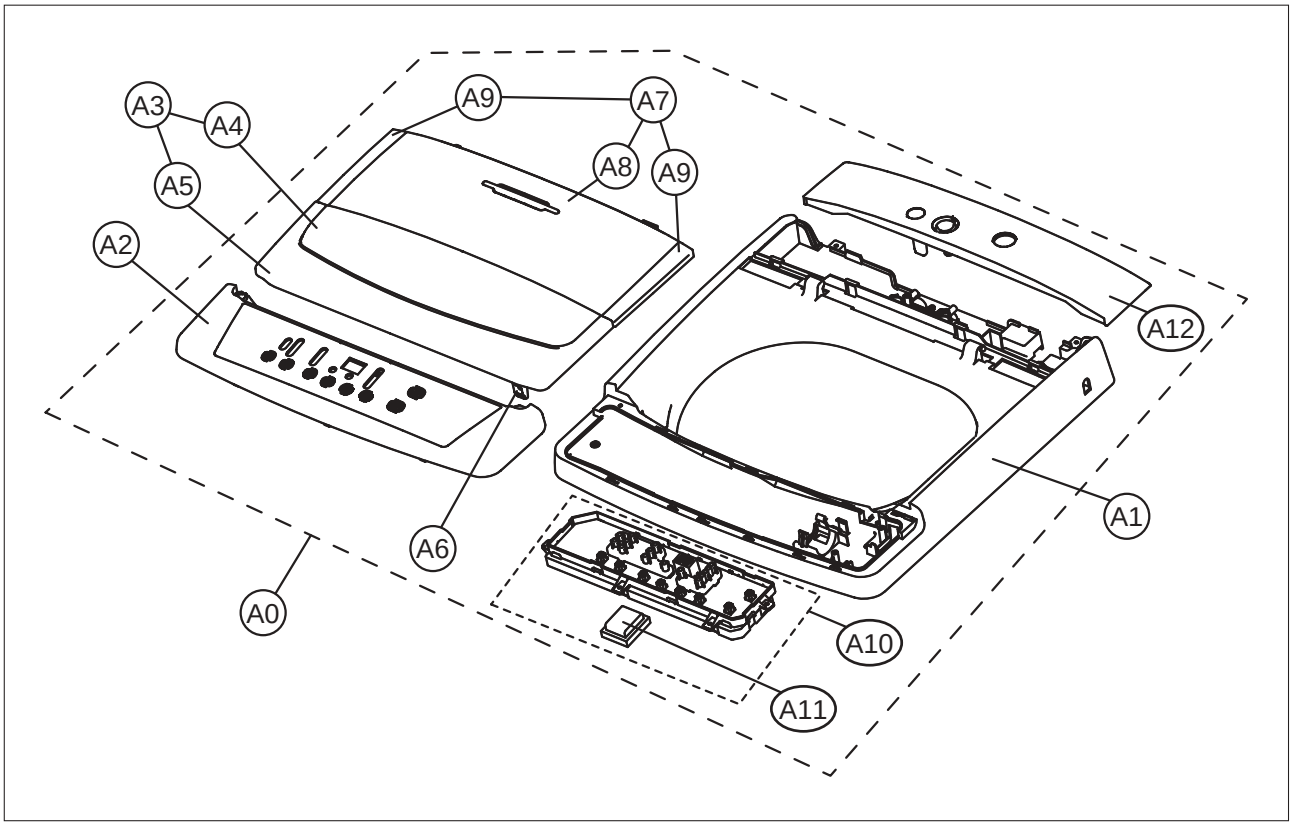
## Parts Diagram - DWF-8000, 8001, 8002

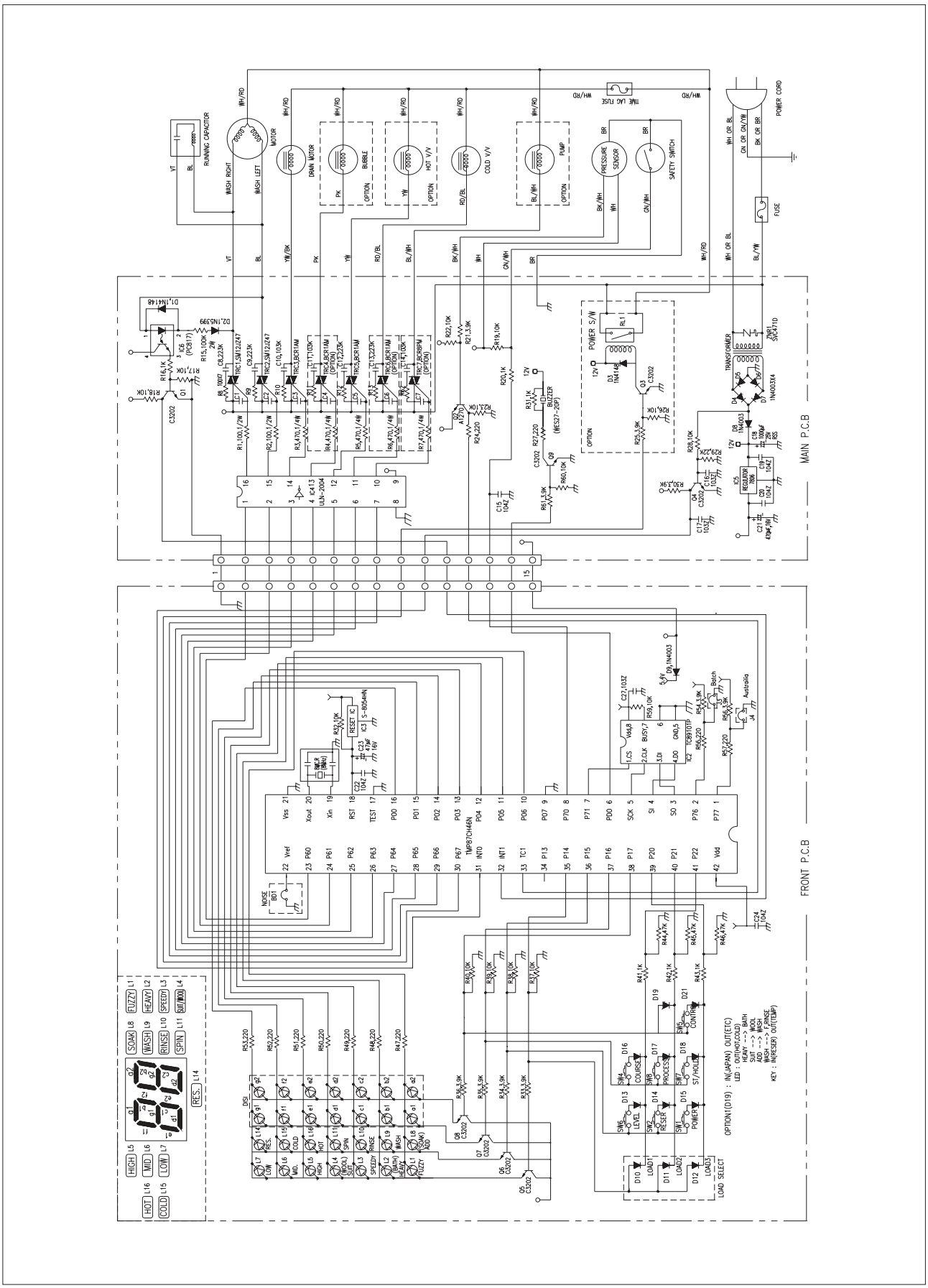



## Parts List

| No. | PARTS NAME | CODE | SPECIFICATIONS | Q'TY | REMARK |
|---|---|---|---|---|---|
| A0 | PLATE TOP AS | - | DWF-8000WJ (JAPAN) | 1 | |
| | | 3614523141 | DWF-8000WNP(CHILE) | 1 | |
| | | - | DWF-8000WL (PERU) | 1 | |
| A1 | PLATE *T | 3614521520 | PP- JAPAN | 1 | |
| | | 3614521500 | PP (BI730T)- PERU, CHILE | 1 | |
| A2 | PANEL *F | 3614233500 | ABS (728),CHILE, PERU | 1 | |
| | | 3614233510 | ABS (728),JAPAN | 1 | |
| A3 | DOOR FRONT AS | 361A113130 | 8000W DOOR(TR)+COVER(NON-TR) | 1 | |
| A4 | DOOR *F | 36117ADK00 | TR ABS | 1 | |
| A5 | COVER DOOR F | 3611432700 | ABS | 1 | |
| A6 | HOOK DOOR | 3613101300 | ZNDC 5.5K - JAPAN | 1 | |
| A7 | DOOR BACK AS | 361A113025 | 8000W DOOR(TR)+COVER(NON-TR) | 1 | |
| A8 | DOOR *B | 36117ADL00 | TR ABS | 1 | |
| A9 | COVER DOOR B | 3611432800 | ABS | 1 | |
| A10 | PCB AS | PRPSSWU619 | DWF-8000WJ, JAPAN, DOOR LOCK | 1 | |
| | | PRPSSWU621 | DWF-8000WL, PERU, PP, HOT, NON-BB | 1 | |
| | | PRPSSWU622 | DWF-8000WN, CHILE, PP, HOT, NON-BB | 1 | |
| A11 | TRANS POWER | 5EPU131210 | TS6-V14 | 1 | |
| A12 | PANEL *B | 3614233600 | PP (J945) - PERU, CHILE | 1 | |
| | | 3614233400 | PP (J945) - JAPAN | 1 | |
| A13 | HOOK DOOR | 3613101300 | ZNDC 5.5K - JAPAN | 1 | |
| A14 | TRANS POWER | 5EPU131210 | TS6-V14 | 1 | |

* About more parts such as electric parts not specified on this page, please refer to the other pages.

## Circuit Diagram



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CABLE: “DAEWOOELEC”

S/M NO. :

PRINTED DATE: Sep. 2011

# ABOUT THIS MANUAL

VISION CREATIVE, INC.
서울 종로구 통의동
6번지 이룸빌딩 4층

| | |
|---|---|
| 담 당 | 정건기 님 |
| MODEL | DWF-750/752/800/802 |
| | DWF-8000/8001/8002 (S/M) |
| 접 수 | 2000.05.15 |
| MEMO | 총 49p |

11.09.06-표지, 표지뒤, 1p, 2p, 46p, 47p(모델명 추가)수정_ 신규 6p

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